

CORTROL software features by edition

(v1.32 Nov)

Category		Functionality	Premier	Global		
General	Licensing	Simultaneously connected channels	9/16/24/72/96	Unlimited		
		Licensed channel types	Video, VA, CrossLink, data channels, other special channel types			
		Licensing type: channel-based	Per server	Centralized		
		Licensing type: perpetual with support update plan (SUP)				
		Licensing: special features	Available	Available, channel packs		
		License management: online/offline				
		License upgrade options	2 years for the last installed version			
		Technical support	2 years after license activation			
		Version updates	+1, +2, +3, Premium Lifetime			
		Support and update subscription plan	2 years after major release date			
		Software version life cycle	Website	Issued per customer		
		New version installation packages				
		License manager	Local			
		Update plan subscription expiration and trial expiration notifications	For all connected clients			
		Free 45-day trial	Once per each server	Unavailable		
	Installation	Unlimited archive size and duration	Unlimited (storage limitations apply)			
		32-bit and 64-bit installation packages for all components	Available			
		Supported OS: Microsoft Windows 10/11, Windows Server 2016, 2019				
		Virtual machine support				
		Step-by-step installation wizard				
		Installation guides and software documentation				
		Interface localizations: Czech, Chinese (Traditional), Chinese (Simplified), Dutch, English, French, German, Hungarian, Indonesian, Italian, Japanese, Korean, Latvian, Polish, Russian, Spanish, Thai, Turkish, Malay, Portuguese, Ukrainian, Serbian				
		Cloud Connector			Cloud connector service: simplified remote connection to servers	Available (beta)
					For the Console and Client connections	
					Secure tunnel connection to servers behind NAT and firewall	
Data re-streaming via cloud if impossible to establish direct connection						
Video Sharing	Server registration in the cloud using Google, Microsoft, or Apple account	Available (beta)				
	Video sharing feature via URL (generated link)					
	Simple and secure video sharing from the Client application					
	Separate user permissions for the video sharing					
	Share via email (optional) or via link (simplified)					
	Send the link to email(s) automatically					
	See and copy the link manually (to send via messengers, etc.)					
	Configurable limitations and security settings via Console					
	Check the shared video list and manually remove sharing via Console					
	2-Factor authentication to gain access to the video					
Server	Core	Client application connections	Unlimited			
		Web application connections	Unlimited			
		Mobile application connections	Unlimited			
		HTTP API for third party integrations	Available			
		Designated Security System API for access control and security/fire/other alarm panel integration	Available			
		Connection encryption	Available			
		Encryption of all databases	Available			
		Archive encryption	Available			
		Local and remote management via dedicated interface	Per server	Centralized		
		Local software upgrade (server/clients)	Available			
		Remote server upgrade	Not applicable	Available		
		Manual configuration backup and restore	Available			
		Automatic (scheduled) configuration backup	Available			
		Configurable destination for configuration backup	Available			
		Unlimited video stream resolution	Unlimited			
		Cameras and other devices supported via native drivers or ONVIF profile S	5000+ models, 140+ manufacturers			
		Generic device divers: emulation, RTSP, ONVIF, HTTP, HTTPS, Web Page	Available			
		Support for interactive contents	Available			
		Support for remote Web applications (webpages) (direct output to client) (CrossLink)	Available			
		Device driver: remote Web application/Web page (CrossLink)	Available			
		Device driver: remote Desktop application (CrossLink)	Available			
		ONVIF Profile S conformance	Available			
		Analog PTZ protocols (RS-232, RS-422, RS-485)	Available			
		Support for video capture boards (analog-to-digital)	Available			
		Server autodiscovery	Not applicable	Available		
		Service mode	Available			
		Software watchdog (software, system, storage performance monitor)	Available			
		GPU for rendering and decoding of live video and fisheye dewarp: H.264, H.265	Available			
		GPU test utility	Available			
		Recording	Main and secondary video stream recording	Available		
	Edge recording (for some integrations and ONVIF Profile G devices)		Available			
	Supplementary streams: audio, motion data		Available			
	Supplementary streams: VCA metadata, text overlay (data sources)		Available			
	Supplementary data: bookmarks (separate database + policies)		Available			
	Bookmark severity levels with color tags		Available			
	Local storage support, JBOD/RAID		Available			
	Remote/network storage support, including NAS/SAN		Available			
	Dedicated storage (per channel, per channel group)		Available			
	Proprietary video archive format		Available			
	Storage encryption (password-protected)		Available			
	Encryption (password-protected) for server storage and archive backup		Available			
	Archive index recording using NTFS transactions (optional)		Available			
	Manual video archive backup		Available			
	Automatic video archive backup (replication)		Available			
	Smart replication based on the channel alerts		Available			
	File-by-file or frame-by-frame replication (continuous VS smart/partial recording)		Available			
	Recording profiles – constant, by motion, by event, low FPS		Available			
Recording schedules	Available					
Custom (user) calendars	Available					
Emergency recording	Available					
Storage configuration: directories, quotas, retention, fallback	Per server					
Fallback storage (failover storage within server)	Per server					
Networking	Multiple network support	Not applicable	Available			
	Multicast support for selected devices	Available				
	Multicast support for server-client connections	Available				
	RTSP, HTTP, HTTPS, Modbus, native protocols for devices	Available				
	Configurable TCP and HTTP, HTTPS ports	Available				
	Fallback storage: failover disk, one per server	Available				

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	Redundancy	Channel replication: extra archive copy	Not available	Available
		Unlimited number of replicas for each channel		
		Different storage or server destinations for each replica		
		Configurable replication offset (days to go back)		
		Failover servers: move configuration to another server in case of emergency		
		Failover servers: 1-to-1, 1-to-N, N-to-1		
		Failover clusters: unlimited number		
		Automatic or manual server replacement		
		Automatic or manual server recovery		
		Configurable failover and recovery timeout		
		Central server mirror: failover for the central management server		
	Client auto re-connect to mirror and recording servers (direct)			
	Video walls and external services: centralized or directly on recording server			
	Video Analytics (CVA Basic)	Per-server CVA Video Analytics (CVA) license	1 free channel per license	
		Built-in VA engines based on neural networks	Available	
		Performance- and accuracy-oriented VA models		
		Accuracy vs performance settings to adjust hardware load		
		Runs on Intel and AMD CPU		
		CUDA (NVIDIA), Intel, and ADM GPU computing support		
		VA for any and virtually unlimited number of channels	Only limited by hardware	
		Real-time object detection and classification	Available	
		Metadata overlay for live video and playback		
		E&A events for new VA object detection		
		CVA visual controls zones, lines, counters (configuration and Client display)		
		CVA: zone rules (enter/appear, exit/disappear)		
		CVA: counting line (crossed AB, BA, any direction)		
		CVA: zone counters (current number of objects in the zone)		
		CVA: use software counters for counter and zone rules		
		CVA: zone settings (object presence/absence, intersection threshold)		
		Server-side video analytics for any video channel		
		Detection and non-detection zones		
		Region of interest with multiple polygon ROI support		
		Counters		
		Object classification: vehicles, persons, animals		
		Configurable object presence/absence thresholds		
		Adjustable object intersection threshold (per zone/line)		
		Automatic reports (PDF) based on VCA counters		
		Manual reports in client application		
		Support for camera-side video analytics		
		Support for ONVIF camera-side video analytics with metadata video overlay		
		Support for custom generic ONVIF event setup based on ONVIF communication		
		Import and export for the user-defined ONVIF notification events		
		Separate database for VA events and counters		
	Separate database for external recognition result history (from 3rd party sources)			
	Interface	Dedicated configuration application	Available	
Unified interface for all editions				
Touchscreen friendly interface (no right-clicks or hidden menus)				
All changes immediately applied and saved into the configuration database		Available	Centralized	
Local and remote server management				
Centralized management of multi-server systems				
Secure user login using 2FA (two-factor authentication) via email or SMS		Not applicable	Available	
Login using external authentication providers - Oauth 2.0 (Google, Microsoft, Apple, Okta, generic)				
Quick setup wizard (contents depends on edition)				
Configurable columns per resource (show/hide, order)		Available		
Freeze columns for convenient horizontal scrolling				
Show/hide Folder functionality (application-wide)				
Show/hide Folders' tree				
Show/hide internal object IDs (for API calls)				
Text search and object filtering for resource browsing				
Server login history (choose previous connection from drop-down list)				
Update plan subscription expiration notifications				
Security		Encryption for all databases and archive	Available	
		Encryption for all connections		
		128- and 256-bit AES encryption for archive and communication		
		Digital certificates: self-signed	Not available	Available
		Digital certificates: customer own (issued by authority)		
		Folders (hierarchical resource structure for access management via Console)		
		Folders: sub-admin roles based on location or other properties		
		Folders: administration access virtualization		
		Folders: full resource administration or read-only rights	Available	
		Resource grouping (for all resources)		
		Nested groups (multi-level grouping)		
		Internal user accounts	Available	Centralized
		Option to disable user accounts at a specific time and date		
		Option to enable user accounts at a specific time and date		
		Use schedules and user calendars for user/user group login	Available	
		Option to auto-disconnect user sessions if: disabled or password/token expired		
	AD (Active Directory) and LDAP support (external user import)			
	Automatic (synchronization) or manual management of AD users			
	2-factor authentication (2FA) for Console and Client login			
	OAuth 2.0 (Google, Microsoft, Apple, Okta, generic) for Console and Client login			
	Cybersecurity dashboard (settings' summary)			
	Cybersecurity report	Per server	Centralized	
	Advanced and detailed permissions for all resources and all users			
	Flexible administration access permissions	Available		
	Individual and per-group permissions			
	PTZ priorities for users and user groups			
	Server security policies			
	Audit log for server events and user actions			
	Flexible audit policy			
	Save audit to external DB (PostgreSQL, MySQL, Microsoft SQL Server)			
NTP server settings (tyme synchronization) time?				
Global permission to remove archive (disabled by default)				
Remove archive protection				
Separate access to recent archive (configurable interval)				
Configuration import from database	Available	Centralized		

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Category		Functionality	Premier	Global			
Console (Configuration)	Devices	Configuration import from XML (migration from old VMS)	Available	Centralized			
		Device autodiscovery	Available				
		Add devices manually one by one					
		Bulk add devices	Not available	Available			
		Copy existing devices					
		Bulk edit (change device and channel settings)	Available				
		Change device model (when replacing camera)					
		Detach/attach channels from/to devices (channel settings preserved)					
		Automatically create channels for added devices					
		Fast navigation: jump from device to linked channel and back					
		Smart device deletion: automatically remove related channels and rules					
		Quick device actions: assign server, recording configuration			Available		
	Device and Channel Capabilities	Audio source: device (line in or built-in microphone)					
		Audio source: microphone connected to the server					
		Audio source: combine audio and video from different devices					
		Audio OUT – for two-way audio device integrations					
		Motion detection: from device					
		Motion detection: server side, high accuracy or high performance mode					
		Digital input (DI) support	Available				
		Digital output (DO, relay output) support					
		Dewarp for fisheye cameras	Available				
		Native dewarp for Immervision Enables® Panomorph lenses					
		Configure channel properties (codec, resolution, bitrate, FPS)					
		Channel properties: frame adjustments (brightness, contrast etc.)					
		Configure channel overlay: shortcuts, data overlay, VA items, indicators					
		Interactive channels overlay as resource shortcuts for the Client app					
		Copy-paste overlay items (if applicable)					
		Passive channel mode: only stream from device to server when a client requests it (saves traffic)					
		Hybrid mode: passive mode with service connection ON (PTZ, metadata) for ONVIF and RTSP					
	Layouts	Layout templates: custom grid	Available				
		Layout templates: up to 100 viewports, from 1x1 to 20x5					
		Shared layouts (stored on the server)	Available	Centralized			
		Groups for shared layout management					
	Maps	Maps based on popular image formats (JPG, JPEG, PNG, BMP, GIF, TIFF)	Available				
		Geo maps based on world map (©OpenStreetMap)					
		Geo maps: lock region					
		Map markers: channels, map links, user buttons, layouts, doors, indicators, webpages					
		Map markers: links to control panels					
		Map markers: channel markers with view area					
		Map markers: security items					
		Bind items from security systems to icon markers and 2D zones					
		Channel markers: an option to link with indicators + use indicator color for alerts					
		Map markers: copy and paste configured markers within the map					
		Map marker icons: search based on keywords/categories					
		2D polygon zones linked to indicators and/or to user buttons					
		Multi-layer maps (interlinked)					
	Control Panels	Control panels: monitoring dashboards (row view)	Available (beta), per server				
		Server monitoring: online/offline servers/channels, server resource usage					
		Channels: online status, video loss time					
		User buttons: interactive (clickable)					
		Indicators: status					
		Conditions (E&A): ON/OFF (interactive)					
		Counters and variables: value					
		Map markers (shortcuts to control panels)					
	Separate permission to view and to execute related interactive actions	Available (beta), centralized					
	User Buttons				User buttons: software buttons for action triggering		
					Link user buttons to channels on the fly or permanently		
					User button markers for maps and geo maps		
		Available in client application and mobile applications					
	CrossLinks	Interactive live video channels from remote Web applications/Web pages	Available, additional license				
		Interactive live video channels from remote Desktop applications					
		Recording of remote Web applications					
		Recording of remote Desktop applications					
		Frontend integration third-party applications running on Linux/macOS					
		Remote Web applications can be opened as dedicated tabs in the Client app					
		Remote Web applications can call Client API functions (pop up live/playback, etc.)					
		Users can save images, video files, and PDF/CSV files from the interactive Web channels					
		Users can save exported video files from CrossLinks (e.g., NVRs)					
		File upload to the CrossLink webpages					
		Crosslink tab grouping in the Client application (based on Visual groups)					
		Nested browsing of CrossLink tab structure via Visual Groups					
		Users can define CrossLink icons for their appearance in the resources and tabs in Client					
		Interactive Web channels can produce window popups					
	Interactive Web channels can access local media (camera, microphone, screen capture)						
	Groups	Internal groups for permissions management	Available				
		Visual groups: channel grouping for client application and mobile apps					
		Visual groups: channel grouping for archive backup wizard					
		Multi-layer visual groups (nested, tree view in the client application)					
		Live podcasts: stream channel over RTMP			Unlimited		
	Streaming	Stream to YouTube, Wowza, or generic RTMP service					
		Video and audio over RTMP	Available				
		Built-in RTSP streaming server					
		Video (main and substream) and audio over RTSP	Unlimited				
		Access to RTSP streams with authorization	Available				
		H.264, H.265, MJPEG over RTSP					
		Email	Mail servers: configurable, unlimited		Available		
	For event notifications and automated reports						
	Report sending via email						
	Email notifications						
	Email notification with snapshots from main or secondary stream						
	Aggregation based on time or number of events						
	Support for public and own SMTP servers						
	Security: none, STARTTLS, SSL/TLS						
	2FA (two-factor authentication) via email						
	Quick access	Pre-configure short alphanumeric IDs for quick access in Client	Available				
		Text, numbers, or mixed IDs (number-only IDs, e.g., for i-PRO CCTV keyboard input)					

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Category	Functionality	Premier	Global		
Console (Troubleshooting)	Customizable IDs for channels, layouts, user buttons, maps, crosslinks, data channels	Available			
	Support for GSM modems (hardware connected to server)				
	Event triggered by incoming SMS (text/regex)				
	Action to send an SMS message with configurable text				
	2FA (two-factor authentication) via SMS				
	Automatic reports from VCA and software counters	Available			
	Automatic reports based on the External service data				
	Manage counter's data (remove history from database)				
	Software counter actions for any event: increment, decrement, reset to 0				
	Automatically compile and email daily/weekly/monthly reports				
	Configurable time range (filter)				
	Configurable report type (bar, line, pie diagram)				
	Configurable filters for the external service data				
	Health reports based on Audit log problems				
	Health reports based on user-defined events				
	PDF or CSV file format				
	Any number of video walls: no additional fees	Not available		Available	
	No middleware or additional drivers required				
	Configurable grid (up to 100 displays per video wall)				
	Remote management				
	Automatic contents assignment (scheduled or popup based on events)				
	Sync with intercom calls (Command)				
	Tiled video wall: stretch single screen on up to 9 physical displays				
	Centralized or per-server				
	No extra load on the server or client machines				
	Audit	Audit policies	Available		
Keep track of all server events		Per server	Per server and centralized		
Keep track of all user actions					
Problems section: highlight critical issues		Available			
Emailed reports based on problems and user-defined events					
Detailed audit for archive access (playback, export, snapshots)					
Detailed audit for user login with stating the exact reason for unsuccessful login		Available			
Forward all audit events to the pre-defined Syslog server					
Search audit log		Available	Available, per-server or centralized		
Search filters based on time, user, server, resource, or event type		Available			
Separate Problems section that highlights important issues					
Separate database					
Export search results into CSV format		Depending on server capabilities			
Live status of all server resources					
Indications of errors					
Indications of warnings (low impact errors) with an option to hide					
Server status and performance monitoring					
Device health					
Channel status, stream properties and setting overview					
Streams: recording status and destination					
Archive statistics					
Storages: availability, encryption, disk queue					
CVA: detailed monitoring for built-in video analytics					
User sessions, connection type					
Video wall connections				Not applicable	Available
External service connections				Available	
Reports: status, last/next execution time					
Access control: door status					
OPC connections and status					
Indicators: current state					
Tools	Problem report wizard for contacting support engineers	Available			
	Problem report wizard: typical problems – tree-like reporting				
	Problem report wizard: custom (free-form) problem description				
	Problem report wizard: append problem snapshots				
	Problem report wizard: save report or send automatically				
	Server setup wizard: change server TCP port and name				
	Server setup wizard: reset recording server configuration	Not applicable		Available	
	Remote upgrade (HTTP/HTTPS) and server status/version				
Data Sources	Accept serial text from TCP/UDP/COM	Available			
	Accept text from POS systems				
	Split text between multiple channels				
	Text overlay for any video channel, configurable output				
	Highlight new lines in the data visualization				
	Keywords (variables) for triggering events				
	Data channels: data-only channels for serial text visualization				
	Time series databases optimized for data channels				
	Import data source profiles (including mappings) and databases				
	Export data source profiles (including mappings) and databases				
	External services: API integrations			Per server	Per server or centralized
	Camio integration (as external service)				
	FR: face recognition connection				
	LPR: license plate recognition connection				
	Two-way event and action flow	Per server			
	Receive, store, and search for external metadata (events, objects, attributes, description)				
Dedicated API/SDK and samples for third-party security system integrations	Per server	Centralized			
Keri Doors.NET					
KEEP by Feenics					
Gallagher Command Centre					
Visual Access System (GSF Corporation)					
Roger RACS 5					
Paxton Net2					
NEDAP AEOS					
Inner Range Integrity					
Kantech Entrapass					
SATEL Integrum					
RISCO fire alarm panels					
Doors: events, actions, permissions, map markers					
Associate doors with video channels					
Items: security partitions, zones (inputs), and outputs					
Events from and actions from partitions, zones, and outputs					
Associate video with security items					

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Category	Functionality	Premier	Global
Events and Actions	Configurable severity levels for the security systems (12 levels)		
	Configurable severity level colors for the item state (armed/disarmed, etc.)		
	Interactive map markers for all security items		
	Access control system events		
	Cardholders		
	Textual search in the client application		
	Event notifications from access control software (status codes)		
	Actions related to access control (change door status etc.)		
	MQTT	Available	
	MQTT protocol support		
	MQTT Client functionality (can add any number of fully functional MQTT clients)		
	Event triggered based on incoming MQTT message (text/regex)	Per server	
	Action to send MQTT message		
	OPC client functionality		
	Two-way integration (events and actions)		
	Support for any OPC server software (OPC-DA)		
	Modbus client functionality		
	Read and write single digital input and digital output (DI/DO) values (coils, outputs)		
	HEX mask and Boolean logic support for the event-triggering bit setup		
	Read and write multiple DI/DO values (registers)		
	Support for any appliances operating via generic Modbus		
Events and Actions	Rules	Available	
	Automated event-action scenarios		
	Per-server configuration		
	Event & Action Configurator		
	Quick basic event setup via quick setup wizard	Not available	Available
	Display the list of all rules from all servers		
	Built-in Events	Available	
	Central server connected		
	Central server disconnected		
	Single recording error		
	Recording recovered		
	Fallback storage activated		
	Disk excluded from recording		
	Video lost/restored (per channel)		
	Motion event (present/started/stopped)		
	Auxiliary device event (for non-video devices like Satel etc.)		
	Failover node activated	Not available	Available
	Global event (visible to all servers)		
	User button clicked	Available	
	Custom channel event (triggered by URL), three for each channel		
	Digital input state changed	Available	
	VCA event (software-side or camera-side)		
	Events from external services (LPR, FR recognitions, API events)		
	Scheduled event: automatically raise event based on a timetable		
	Scheduled event: automatically raise event every N minutes		
	Variables: react to certain keywords from data sources (POS or other)		
	Camera-side variable value		
	Software and camera-side counter value		
	CVA (CORTROL Video Analytics) counter, zone, or line event		
	Video wall events (video wall state changed)	Not available	Available
	External events: accept HTTP requests from third party		
	MQTT event (event triggered by incoming MQTT message)	Available	
	Incoming short message event (event triggered incoming SMS)		
	OPC server events		
	Security system and security item events (for zones, partitions, outputs)		
	Door events from access control integrations		
	Generate alert for main and substream recording (alert based recording)	Available	
	Trigger global event		
	Default Actions	Not available	Available
	Pop up object on screen		
	Pop up playback on screen		
	Set/unset condition		
	Change software counter state (increment/decrement/reset)		
	Disable/Enable/Toggle channel (server event)	Available	
	Disable/Enable channel's video analytics (server event)		
	Change recording profile for main and secondary stream		
	Activate PTZ tour		
	Activate PTZ preset		
	Change digital output state		
	Device action (device-specific actions like arm/disarm)		
	Create bookmark	Available	
	Change access control state (system action to send event to AC, e.g., for Gallagher's Patterns)		
	Change door state (for access control integrations)		
	Security system and security item related actions (for zones, partitions, outputs)		
	Change OPC server node value		
	Pop-up object on video wall (channel or map)	Not available	Available
	Highlight object on map or geo map		
	External service (for API integrations)	Available	
	Send email notification		
	Send email notification with attached main or substream snapshot		
	Run program (any executable file or shell script)		
	Send SNMP trap to third-party SNMP manager		
	Send event to client application (text or audio)		
	Send push notification to mobile apps		
	Send audio file to camera for playback (audio OUT)		
	Write to software audit log		
	Write to OS application log	Available	
	Send HTTP/HTTPS request (URL)		
	Export snapshot to local storage or FTP		
	Send MQTT message		
	Send SMS (outgoing short message via GSM modem)		
	E&A Extras	Available	
	Rule timers: delay, aggregate, cooldown (pause)		
	Conditions: combine two or more events to trigger a single rule		
	Action target: use universal actions for many different target resources		
	Rule schedules: activate during specific hours		
	Counters: count number of occurrences for any event		
	Counters allow building live reports in client application		
	Create automatic reports based on counters and email them (PDF)	Available	
	Indicators: entities with multiple states, displayed in monitoring and on maps		

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Category	Functionality	Premier	Global
Client Application (Basic Functionality)	Indicators: change state based on event	Available	Unlimited
	Internal tags and subjects for FR and LPR		
	Unified interface for all editions		
	Simultaneous connection to servers		
	Touchscreen friendly interface	Available	Available
	Built-in user guide (PDF format)		
	Application branding (define logo image via Client Admin Tool)		
	Adjustable "no video" placeholder image for branding and application customization		
	Configurable single-click support call from the application (click on the logo)		
	Multi-display setup		
	Startup configuration (layouts, window arrangement)		
	Configuration import/export		
	Server connections (list)		
	Show or hide manually disconnected servers		
	Grouping for server connections		
	Merge resources (hide server names)		
	Automatic logout after specified timeout		
	Popup notification upon server disconnect		
	Show user password that is being entered	Available	Available
	Option to block user account after N unsuccessful login attempts		
	Secure user login using 2FA (two-factor authentication) via email or SMS		
	Login using external authentication providers - Oauth 2.0 (Google, Microsoft, Apple, Okta, generic)		
	Internal and AD/LDAP user support		
	Different domain login for AD/LDAP		
	Multicast support (server-to-clients)		
	Window minimize/maximize/full screen		
	Disable/enable background streaming for bandwidth usage optimization	Available	Available
	Keyboard shortcuts for most client functionality for any Windows/joystick keyboard		
	Search input from CCTV keyboards (if supported)		
	Custom resource IDs to facilitate resource search (Ctrl+F) (config via Console's Quick Access)		
	Native support for i-PRO (Panasonic) WV-CU98 CCTV keyboard		
	Client application Administration Tool with advanced permissions and UI restrictions		
	Themes (change application colors)		
	Application settings: language, usability, overlay elements		
	Search across application settings		
	Time presentation: server-side/client-side/UTC		
	Collapsible resources panel (more space for live view)		
	Search among resources (channels, maps, user buttons, layouts)		
	Case management: alarm pane	Available	Available
	Visual groups (single or multi-layer) for resource grouping/filtering, tree view		
	Define individual icons for channels, user buttons, CrossLinks, and visual groups (via Console)		
	Auto layout creation for visual groups		
	Built-in layout templates (grids)	Available	Available
	Server-side (user-defined) layout templates		
	Layout change history (undo/redo changes) for live and playback (50 states)		
	Channel status: visual indication		
	Indication for offline server	Not available	Available
	Indication for offline server substitution (mirror/direct connection to recording servers)		
	Tooltips (popup hint on mouse over)	Available	Available
	Application modes: always on top, lock application, exclusivity mode		
	Run archive backup wizard with current user rights		
	Import and export Client application settings		
	Safe export of the server connections list		
	Update plan subscription expiration notifications		
	Live video streaming, single or multi-channel	Available	Available
	Live view optimized for high FPS		
	Double click to maximize channel or revert to the multi-camera view		
	Convenient switching between maximized channels		
	Main and secondary video stream (low/high resolution)		
	Manual or automatic stream selection with default option		
	Video analytics metadata overlay (built-in VA, ONVIF, camera metadata)		
	Interactive channels and webpages (CrossLink)		
	Data channel visualization (POS data and other, text only)		
	Live audio IN (from the camera)		
	Live audio OUT (talk to camera from client)		
	Convenient audio IN and OUT control for all channels in the layout		
	Save current layout locally	Available	Available
	Save current layout on the server (shared layout)		
	Saved layout properties: all toggled controls, last used PTZ preset, user buttons	Available	Available
	Set current layout as startup		
	Create layout sequence		
	Remove layouts and layouts sequences		
	Send current channel to Smart search or Sequence Explorer	Available	Available
	Send current screen contents or any resource to any display		
	Drag and drop channels to viewports		
	Drag and drop maps and visual groups to viewports		
	Drag and drop user buttons to channel viewports to link them	Available	Available
	Pop up objects based on events (individual viewports or layouts)		
	Lock viewports to avoid popup replacements		
	Status overlay: time, stream properties, recording ON/OFF, motion grid		
	Adjust font size/color/position for the viewport timestamps	Available	Available
	Toggle aspect ratio (per viewport, also app wide setting)		
	Add bookmark		
	Save snapshot		
	Toggle PTZ controls	Available	Available
	PTZ HUD (Heads-Up Display) or old fashioned PTZ sphere		
	PTZ presets and tours		
	Point-to-Click PTZ (for compatible ONVIF devices)		
	Toggle dewarp	Available	Available
	Dewarp mode (sector/180-/360-degree panorama)		
	Digital PTZ with picture-in-picture preview and zoom IN/OUT		
	Notification panel: errors, alerts, recognition results		
	Notification panel: configurable font size	Available	Available
	Notification panel: color highlights for tagged events from external services		
	Notification panel: change size, contents scale, and position		
	Quickly switch to live view from alarm instances (alarm pane)		

CORTROL software features by edition

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Category	Functionality	Premier	Global	
	Viewport title: drag and drop any channel or map to move it to another viewport	Available		
	Close: remove channel or map from the layout and free the viewport			
	Live and playback video watermark based on the user ID to prevent data leak			
	Channel shortcuts: visual markers as links to other channels			
	Resource shortcuts: visual markers as links to layouts, maps, user buttons, webpages, data ch.			
	Maps	Maps and geo maps in live view mode	Available	
	Geo map scrolling and zooming			
	Interactive markers on the maps (links and actions)			
	Channel markers: an option to link with indicators + use indicator color for alerts			
	Interactive map zones linked to indicators (state) and/or to user buttons (actions)			
	2D zones and markers with associated security system item status and actions			
	Adjustable opacity for the polygon zone objects			
	Adjustable marker title position			
	Live video thumbnail upon mouse over channel marker			
	Right-click draw region to select multiple channels on a map to pop them up			
	Multi-layer maps (interlinked)			
	Maps included into local or shared layouts			
	Map objects highlighted based on server events			
	Control Panels	Control panels: interactive dashboards (row view) that fit viewports	Available (beta), per server	Available (beta), centralized
	Can be saved with layouts and used on video walls			
	Server and channel status and usage statistics			
	Resource status/value (indicators, counters, values)			
	Interactive resources (user buttons, rule conditions)			
	Configurable items names and icons			
	Grouping via visual groups			
	Instant Playback	Single channel playback in the live view mode	Available	
	Instantly review the last N minutes of footage			
	Configurable rewind period			
	Turn ON instant playback for one or multiple channels in any layout			
	Go to specific time			
	Toggle audio, motion grid			
	Add bookmark			
	Export video			
	Save snapshot			
	Quickly switch to live view from alarm instances (alarm pane)			
	Playback	Multichannel playback	Available	
	Built-in watermark check (archive integrity verification)			
	Layout sync with live view (optional)			
	Main, secondary, or edge stream playback			
	Easy archive navigation with relative search intervals			
	Channel shortcuts: visual markers as links to other channels for quick navigation			
	Resource shortcuts: visual markers as links to layouts, maps, user buttons, webpages, data ch.			
	Indicator areas: visual markers as indicators overlaying channel video			
	Automatic track selection for channels recorded on multiple servers (optional)			
	Navigation: play/pause, go to time	Not applicable	Available	
	Jump back/forward +/- 10s, 1M, 10M, 1H, 24H	Available		
	Jump to the very beginning/end			
	Jump back/forward frame by frame			
	Motion seek (jump to next/previous motion)			
	Playback speed: from +/- x0.5 to x128			
	Range selection for export or delete/protect			
	Delete any part of the archive (permissions required)			
	Protect any part of the archive from being deleted (permissions required)			
	Export video clips (multiple formats available)			
	Export single channel snapshots			
	Export snapshots as PDF with details and custom description			
	Export multichannel snapshots			
	Archive calendar: time range with existing footage is highlighted for easy navigation			
	Create bookmark			
	Browse bookmarks			
	Search bookmarks based on creation time or bookmark time			
	Search VCA events, Data sources, and alarms using AND/OR logic			Available
	Search VCA events based on objects, events, or counters			
	Search VCA events by name			
	Data channel visualization, automatic data channel output with related video channels			
	Advanced search in the data channel databases (complex queries)			
	Save, import, and export database search queries (via application settings)	Available		
	VCA metadata on the timeline			
	Export search results in CSV format (any search)			
	Different timeline layouts			
	Video, audio, bookmarks, motion metadata shown on timeline			
	Thumbnails on the timeline	Available		
	Text overlay in playback			
Sequencing	Advanced playback: single channel sequencing for specified time range	Available		
Layouts: from 3x4 to 5x5				
Repeated sequencing down to 2 minutes' interval				
Immediate video export				
Snapshot export				
Quick switch to regular playback and back				
Browse sequences (next/previous portion, next/previous step)				
Smart Search	Advanced playback based on motion data	Available		
Configurable region of interest				
Timestamp selection for accurate region setting				
Motion absence threshold (search sensitivity)				
Result export to CSV file				
Looped playback for result previews				
Continuous playback mode for search results				
Motion overlay for the result previews				
Layouts: from 1x1 to 6x6				
Quick switch to regular playback and back				
Add bookmark				
Immediate video export				
Pre-configured library folder				
Library tab reflecting the contents of the library folder (auto refresh)				
Text search for the library folder				
Snapshot export to library (JPG or PNG)				

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Category		Functionality	Premier	Global
Client Application (Advanced Functionality)	Export	Snapshot export as PDF	Available	
		Dewarp & DPTZ state, metadata and POS data for snapshot export		
		Dewarp & DPTZ state, metadata and POS data for video export (VP8 and JPEG)		
		Video export to library		
		Export job queuing		
		Configurable file name using macros		
		Video export: AVI, MP4, MKV, or frame series		
		Case export: choose multiple time intervals from different channels to create a story		
		Case export: auto combine data channels with related video channels		
		Create, edit, and remove cases within each Client instance		
		Case export: export created case as a single video file		
		Time lapse mode		
		Original or compressed exported video		
		Include data overlay with exported video (text overlay)		
		Motion blur: blur areas based on motion or permanently		
		Configurable subtitles		
		Burn exported files onto CD/DVD		
		Save exported files onto external media (USB, HDD, FTP)		
		Print exported files directly from the Library section		
		Remove files from library		
		Append watermark validator tool with exported files		
		Append portable player tool with exported files		
	Alerts	Separate tab for important notifications: errors, events, user events	Available	
		Alerts tab purged upon application restart		
		3 severity levels: critical, warning, information		
		Snackbar (toast style) live notifications for alerts		
		Per-channel alerts: notification panel (overlay element)		
	Alarms	Popup alerts: configurable from Console	Available	
		Case management: alarm pane (with an option to hide/remove)		
		Alarm pane is separately configurable for live mode and the rest of the modes		
		Live alarms based on bookmarks + live comments and status		
		Live comments		
		Adjustable bookmark severity and status		
		Live snapshot preview		
		Overlay controls to pop up live or instant playback		
		User button overlay to trigger channel-associated actions		
		Filter incoming live alarms based on channels/servers/visual groups		
	Video Wall	Multiple pre-configurable filter tabs	Not available	Available
		Easy multi-display setup		
		Tiled video walls (composite screen)		
		Display numbers		
		Startup layouts		
		Startup sequences		
		Channel/map/layout popups		
		Local and remote management from any client connected to the same server		
		Drag-and-drop to set remote video wall contents		
		No-video mode for remote connections		
tions	Security Systems	Automatic contents (event driven)	Per server	Centralized
		See if other users are managing the same video wall simultaneously		
		Connected access controls or other security systems/panels (fire/alarm, etc.)		
		Search events based on time, source, event name, or cardholder		
		See and change door status		
		See channels associated with doors and security items		
		See security item (partition, zone, and output) status		
		Execute security item actions (bypass, arm, etc.)		
		View door and security item events		
		See and control doors and security items on the maps		
	Reports	See the list of cardholders	Available	
		Filter events by door or security item		
		Filter events by cardholder		
		Export search results		
		Build graphs based on VCA or software counters' data		
		Configurable report interval		
		Configurable report interval (day and time filter)		
		Chart type: bar, line, pie diagram		
		Aggregation		
		Report export (PDF or CSV)		
	Data Sources	Email reports via pre-configured mail server	Available	
		Heatmaps based on motion metadata		
		Live video overlay		
		Text overlay during playback		
		Text overlay during instant playback		
	LPR	Text search (separate tab)	Available	
		Text overlay upon video export		
		Data visualization separated from video (data channels) in live, playback, and instant playback		
		Queries to the databases from Playback (can be saved and loaded)		
		Live results in notification panel (per channel)		
		Thumbnails and text results in notification panel		
		Investigation (separate tab) by one or multiple channels		
		Search by plate		
		Search by tag		
		Search by time range		
		Instant playback		
		Grid view: from 1x1 to 6x6		
		Quickly switch to regular playback		
		Go to specific time		
		Add bookmarks		
		Export snapshot		
		Export video clip		
		Save search results into CSV file		
		Live results in notification panel (per channel)		
		Thumbnails and text results in notification panel		
		Investigation (separate tab) by one or multiple channels		
		Search by face (reference picture)		
		Search by name		
		Search by tag		

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Category		Functionality	Premier	Global
Analytics Integrations	FR	Search by time range	Available	
		Add subject to FR database		
		Instant playback		
		Grid view: from 1x1 to 6x6		
		Quickly switch to regular playback		
		Go to specific time		
		Add bookmarks		
		Export snapshot		
		Export video clip		
		Save search results into CSV, XLS, or PDF file		
	AG	Active Guard OSS Plugin integration with Client application	Available	
		Direct connection from Client application for a unified interface		
		Pre-configure one or multiple Active Guard connections		
		Display interactive contents of the remotely configured Active Guard servers		
		List of cameras		
		Analytics events and recognition details		
		Event search based on the available camera analytics		
		Event search based on time		
		Timeline search across multiple cameras		
		Playback for search results using native Instant Playback		
Tools	Portable Player	Active Guard server event integration with Evo server	Available	
		Object detection and face recognition events from Active Guard in the CVA E&A		
		OCR, LPR, and vehicle detection events from Active Guard in the CVA E&A		
		Object detection and face recognition events from Active Guard in the CVA E&A		
		Active Guard server watchlists as events in the CVA E&A		
		Portable tool (no installation required)		
		32-bit and 64-bit versions		
		Single channel media playback (for exported video in common formats)		
		Add files and folders for playback		
		Multichannel playback for proprietary archive (any disk or backup directory)		
		Playback of encrypted native archive		
		Built-in watermark check (archive integrity verification)		
		Navigation: play/pause, go to time		
		Jump back/forward +/- 10s, 1M, 10M, 1H, 24H		
		Jump to the very beginning/end		
	Watermark Validator	Jump back/forward frame by frame		
		Motion seek (jump to next/previous motion, for proprietary format)		
		Playback speed: from +/- x0.5 to x128		
		Export video clips (multiple formats available)		
		Export single channel snapshots		
		Stream properties: codec, resolution		
		Aspect ratio control		
		Viewport overlay settings		
		Video clip and snapshot export settings		
		Library path		
Mobile and macOS	Archive Backup	Portable tool (no installation required)	Available	
		Append tool when copying exported files		
		Check file watermark (integrity and origin)		
		Check watermark for video clips		
		Check watermark for image files (snapshots)		
		Drag and drop files into validation window		
		Back up any part of the archive manually		
		Local or remote connection		
		Configure time range		
		Select channels and tracks to be copied		
Mobile and macOS	Mobile and macOS	Channel search	Available	
		Pause and resume backup job at any time		
		Enter password to access encrypted storage		
		Encrypt or re-encrypt the backup		
		Android and iOS support		
		Android TV support		
		Remote WLAN (including VPN) and 4G connections		
		Concurrent connections to the same server	Unlimited	Unlimited, via central server
		HTTPS support	Available	
		Multiple pre-configured servers		
Mobile and macOS	Mobile and macOS	Separate user permissions	Available	
		AD/LDAP user support		
		Codec support: JPEG/H.264/H.265/VP8		
		Codec support: per-codec configuration, hardware/software		
		Language support: English, French, Italian, Dutch, Polish, Russian		
		Configurable time format and timezone		
		Video statistics		
		Stream selection: main/substream/auto (based on viewport size)		
		Live video		
		Live audio IN (from camera or server)		
Mobile and macOS	Mobile and macOS	Live audio OUT (from device to server)	Available	
		1x1, 2x1, 2x2 and 3x2 live view layouts		
		PTZ control		
		PTZ presets		
		PTZ tours		
		Visual groups – channel grouping in live view		
		Channel sets (mobile layouts)		
		Chromecast support		
		Aspect ratio control		
		Video archive playback (main/secondary stream)		
Mobile and macOS	Mobile and macOS	Playback: seek	Available	
		Playback: go to specific time		
		Motion search in video archive		
		Push notifications from servers		
		Channel event history		
		User buttons: software buttons for action triggering		
		Snapshots: save frames to a local folder		
		Bookmarks: add and browse		
		Stream from device camera to the server (only active channels counted by license)		
		Record from device camera while offline		
Mobile and macOS	Mobile and macOS	Internal storage and SD card support from recording, configurable quota	Available	

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CTRL software features by edition				(v1.32 Nov	
Category	Functionality		Premier	Global	
Mobile and Web		App widget: panic button – instant streaming from device camera to a server			
		App widget: channels, configurable refresh rate (from 30s to 1h)			
	Web Client	Concurrent connections to the same server	Unlimited		
		Supported browsers: Chrome, Mozilla Firefox	Available		
		Separate user permissions	Available		
		AD/LDAP user support			
		Codec support: JPEG/H.264/MPEG-4 (H.265 if supported by browsers)			
		Live view			
		Stream selection: main/substream/auto (based on viewport size)			
		1x1, 2x1, 1x2 and 2x2 live view layout templates			
		Local layouts (saved in browser cookies)			
		Stream properties: codec, resolution			
		PTZ control: pan, tilt, zoom			
		PTZ presets			
		Single channel archive playback (main/secondary stream)			
		Timeline: video only			
		Jump back/forward +/- 10s, 1m, 10m, 1h			
		Go to specific time	Unlimited		
		Web Client 2.0 Beta	Concurrent connections to the same server	Unlimited	
			Language support (same as main client)	Available	
Supported browsers: Chrome & Chromium-based, Mozilla Firefox, Comet, Edge					
Android tablet (Chrome, Brave) support					
Separate user permissions					
AD/LDAP user support	Available				
Codec support: H.264/H.265 (JPEG/MPEG-4 transcoded into VP8 as HTML5 friendly format)	Available				
Live view					
Auto switch to snapshot mode if unsupported/high load (fallback mode)					
Manual channel reload					
Stream selection: main/substream					
1x1, 2x1, 2x2, 1x3, 1x4 live view layout templates					
Aspect ratio control (original/stretch to fill)					
Stream properties: codec, resolution, FPS, bitrate					
PTZ control: pan, tilt, zoom					
PTZ presets					
Snapshot: save snapshot locally from any channel					
Multichannel archive playback (main/secondary stream)					
Timeline: video					
Bookmarks: add bookmarks					
Jump back/forward +/- 10s, 1m, 10m, 1h, 24h					
Jump to the very beginning/end of the archive					
Go to specific time					
Camera status tab for availability and stream monitoring					