ICVP Intelligent Convergence Visualization Platform

Intelligent Convergence Visualization Platform (ICVP) is a powerful software platform that integrates information acquisition, comprehensive processing, dispatching and distribution, visual presentation, and system monitoring functions in the command center ecosystem. It can quickly implement the inter-department and inter-hierarchical information sharing, develop multi-screen and multi-terminal joint application and collaboration, improve the centralized control service rate of the command center system and equipment, and contribute to intelligent, flat, and integrated combat command.

ICVP-OneControl

» Visualized control with preview and live-view
» Separated UI for engineering and operators
» Support both C/S and B/S architecture
» Signal KVM and annotation

ICVP-OneView

» Organize the resource on Magic Processor more efficiently
» Display high-resolution industrial apps
» Application control with KVM
» DIY dashboard with ease

ICVP-OneCast

Encode and cast the followings on video wall:
» Single desktop, multiple desktops of one host
» Ultra high-resolution virtual screen
» APP windows, super banner
» Mobile device desktop

ICVP-OneReplay

» Record and store the entire video wall display
» Unified management of recording and replay
» Audio recording and replay

ICVP-OneControl

ICVP-OneControl (Integrated centralized control software) is application software of integrated monitoring, management, and control for the display system in command center. It provides integrated and intelligent display control application system for command center.

Product Features

Visualized Control

» Signal preview
» Video wall live view
» Touch interaction
» Signal KVM and annotation
» Application control
» Mode and plan/Autorun scheduling

Central Control Management

» DIY Control interface
» Equipment control configuration
» Component and template library
» Process and scenario management
» Video wall resource control

Visualized Operation & maintenance

» Automatically generating equipment network topology
» Real-time monitoring status of hardware equipment
» Visualized statistical data such as graph and chart
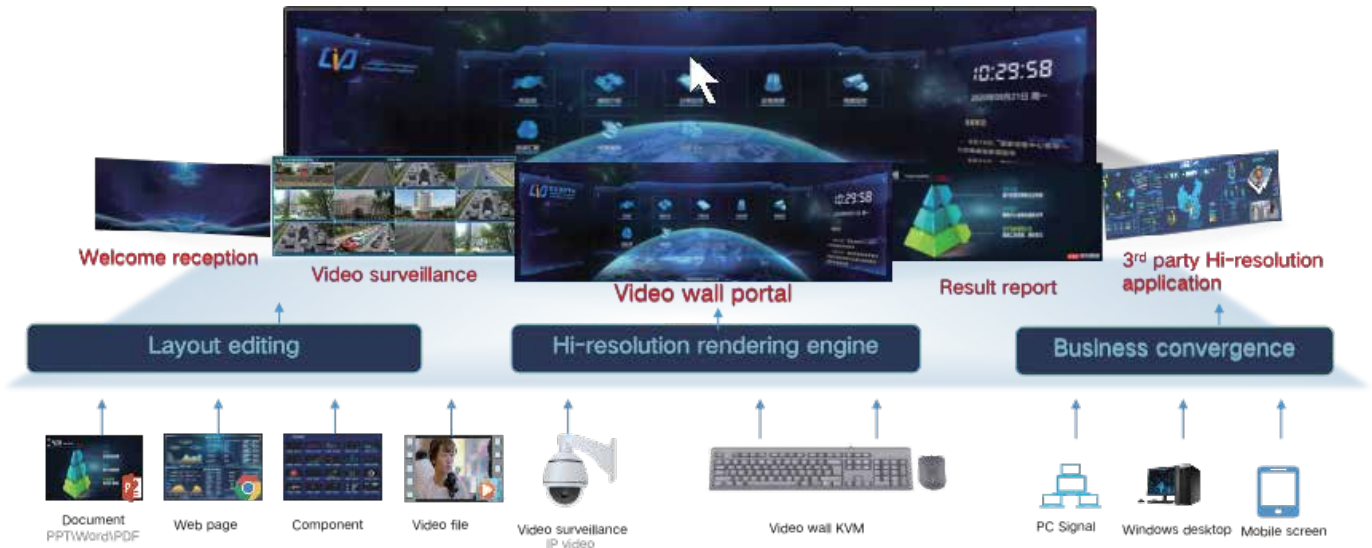» Real-time showing online warning/alarm information

Video Platform Management

» Video platform signal access
» Real-time on demand of camera signals
» PTZ control of camera signals
» Control of IPC decoder

* Non-standard development may be needed*

ICVP-OneView

ICPV-OneView Video Wall(VW) portal provides control room display with the Hi-resolution application display platform, which supports integrated and converged representation of various types of signal, file resource, business application and desktop components.

Hi-resolution convergence of multi-window

Traditional

» Each PC outputs one signal leading to requiring large number of PC

» Due to hardware limitation, max. resoution of single screen is 1080P

VW Portal
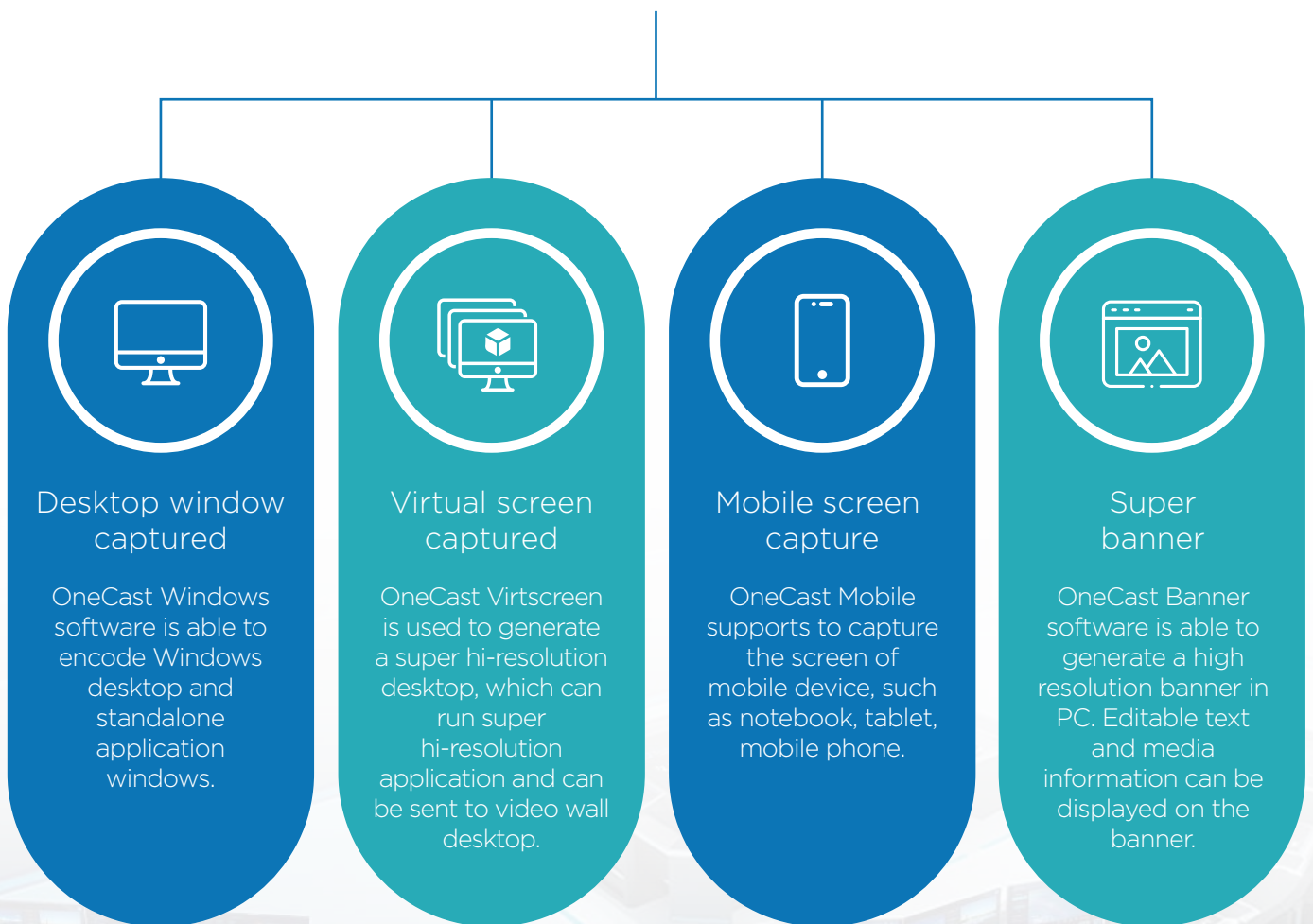
» Directly accessing the webpage by URL, intelligent dynamic resolution, flexible layout, one key calling

» Increasement number of different image does not need extra hardware so that the hardware cost can be reduced

ICVP-OneCast

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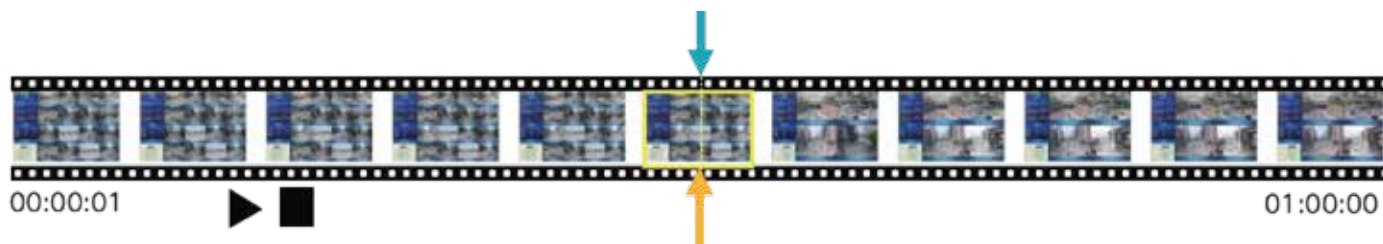

VIDEO WALL

Desktop window captured

OneCast Windows software is able to encode Windows desktop and standalone application windows.

Virtual screen captured

OneCast Virtscreen is used to generate a super hi-resolution desktop, which can run super hi-resolution application and can be sent to video wall desktop.

Mobile screen capture

OneCast Mobile supports to capture the screen of mobile device, such as notebook, tablet, mobile phone.

Super banner

OneCast Banner software is able to generate a high resolution banner in PC. Editable text and media information can be displayed on the banner.

ICVP-OneReplay

ICPV-OneReplay can record and store kinds of signals, files, applications and data pictures displayed on the whole video wall screen and realize traceability and review management of information dispatching and operation process.

00:00:01 ▶ ■   01:00:00

Product Features

» Any content displayed on video wall can be synchronized recorded

» The recorded content resolution is same as its displayed on video wall

» Video is recorded together with audio and replaced at the same time

» Unified management of recording and replay

SPECIFICATIONS

Features	Description
Management of mutiple video walls with any display technology	Vtron supports videowalls with any display technology, such as LED, LCD, DLP One chassis processor supports multiple video walls
Signal sources	All signal types, DVI, HDMI, DP, 4K, SDI, BNC, IP, Networked workstation, etc.
Files control and display	Upload files from the control software client to the desktop server for presentation, no bother to copy files or connect any extra signals Support kinds of file including management of PPT, Excel, txt, video file, picture Files opened as independent windows on video wall and control freely, open, close, resize, resposition, flip pages
Webpage	Directly accessing the webpage by URL, intelligent dynamic resolution, flexible layout, one key calling Increasement number of different images does not need extra hardware so that the hardware cost can be reduced Dozens of web window are displayed in batches and refreshed in seconds No browser menu, border or tool bar, free combination of image Multiple PC pages are converged into one picture without plenty of visualization development workload"
Appliction	Support displaying high-resolution industrial applications (GIS, SCADA, etc.) Application window control, open, close, resize, reposition, modes creation and recalling Support KVM control applications
Super banner	Horizontal and vertical scrolling text Multiple built-in templates can be used to modify text content, font style, add background image, and select parameters such as appearance animation, frequency, and duration Support dynamic webpages, customize your banner with all html5 technologies, display stock ticker, scrolling news, weather, clock more vividly
Basic control	Open/close signal window, modes management, visualized control
Signal Preview/live view	Standard signal preview High-definition preview Visualized control with live display feedback
Scenarios auto-run	Scenarios auto run at given time
KVMSignal	Support KVM control signal sources, inlcuding signal PCs, applications, webpages, etc.
Annotation	Support signal annotation for comment sharing Support pre-annotation before comment sharing
Software streamer for all using scenarios	Support encoding and displaying single desktop, multiple desktops from one host, windows, super banner, ultra-high-resolution virtual screen, mobile device desktop
Big data visualization	ICVP can display any types of content coming from local or network based solutions such as websites, data, 3 3rd party applications Provide rich video wall elements library to design your video wall display easily, such as clock, date, weather, scrolling text, on-duty table, plain text box, picture library, etc."
Video wal display recording and replay	Record and store the entire video wall display content in real time at the origianl resolution of the video wall Audio recording supported Unified management of recording and replay
CCTV platform integration	Provide very easy integration with 3rd party CCTV platform Professional streaming media server to support all IPC brands PTZ control of platform IPC signal
User right management	User access control Registered users can be assigned access rights to specified signal sources, modes, video wall area
Separate UI for engineering and operators	Designer UI for Video wall system resource management, modes creation, scenario creation, etc. without programming needed Simplist UI for operator daily use
Multiple control options	Support both C/S and B/S architecture PC control with Windows, MAC, Linux, etc. Tablet control with iOS and Android Powerful scenario designer Both browser-based and client software UI provided
Powerful Collaboration Extension	Integrated ith Vtron eCon console management system, it reaches the highest level of collaboration among operators, commanders, video walls located in different places
Central Control Management	DIY Control interface Equipment control configuration, such as lighting, curtain, 3rd party devices Component and template library Process and scenario management Video wall resource control
Visualized Operation & maintenance	Automatically generating equipment network topology Real-time monitoring status of hardware equipment Visualized statistical data chart Real-time showing online warning information

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