



5 CHANNEL ALL-IN-ONE STREAMING SWITCHER

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### iCAST 10NDI 5 Channel All-In-One Streaming Switcher

iCAST 10NDI is a new and innovative live production switcher with a built-in camera controller and streaming encoder. A variety of inputs can be connected to iCAST 10NDI which allows you to create an eye-catching presentation with different video sources, designed for classrooms, lecture capture, and conferencing. You can easily live stream to

multiple platforms and record your presentation to an SD card with it's built-in streaming encoder & recorder. Six video channels can be ISO recorded simultaneously in order to provide you with more program materials for video post-production. iCAST 10NDI is designed for mid to large scale live events like professional conferences, seminars, company product launches and house of worship services. iCAST 10NDI is a highly efficient and easy-to-use solution for any video streaming and recording for many online content creators.

iCAST 10NDI is designed for live video production with the following features:

- Multiple input channels via HDMI, SDI, UVC and Ethernet interfaces
- Switching between five video channels at mid to large scale live events
- Simultaneously record six video channels which are comprised of five input videos and one main program out.
- Decode up to three NDI channels
- Built-in CG
- Compatible with dvCloud video streaming and backup service
- Supports 9:16 vertical video streaming
- Multi-audio channel calibration as well as individual audio channel delay for synchronizing audio with video
- Remote control via LAN, Internet and RS-232 using any Datavideo controllers
- Supports TPC-700, RMC-300A, RMC-180 MARK II and PTZ View Assist APP (free) for camera control

# iCAST 10NDI Front Panel



3.5 mm Headphone Jack for monitoring volumes of various audio sources.

Menu on 2" LCD Screen In addition to displaying basic system status, you can also monitor various other functions such as streaming, recording, etc. between different

Menu Selection Knob Easy access to various function parameters and various options. You can also switch system status.

**Button** Press the button to switch Channel 1 between HDMI and SDI video sources.

**Program OUT** Source selection button row is used for selecting video sources for Program OUT or swapping PIP/ POP images.

# iCAST 10NDI Rear Panel

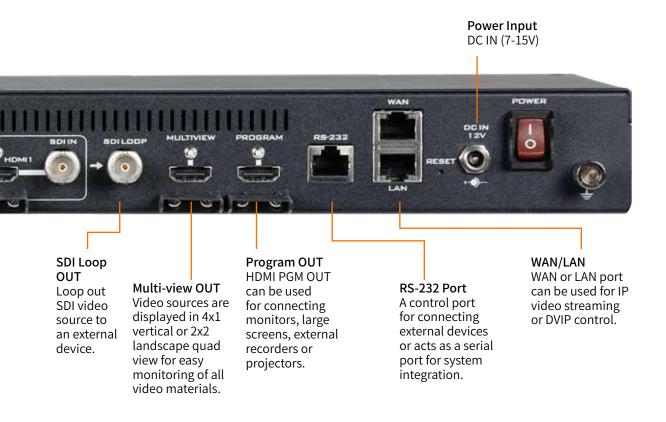


**Audio IN** RCA and XLR dual input design for connecting external analog audio inputs.

**UVC Port** Connects off-theshelf web cams or document cameras as input sources.

Inputs Connect cameras, switchers or other external video sources. Channel 1 is an HDMI/SDI selectable input.





# iCAST10 Six Main Features



1. Seamless Switching



2. Multichannel Audio Mixing



3. Video Streaming



4. Multi-Camera Video Recording



5. Character Generator

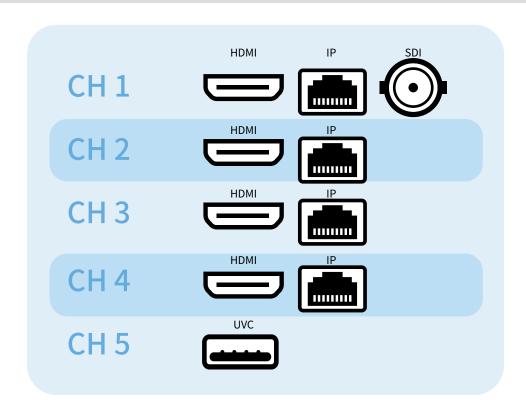


6. System Control



# Multiple Video Input Interfaces

- iCAST 10NDI has five video inputs with one SDI/HDMI selectable port, three HDMI only ports and one USB 3.0 port.
- iCAST 10NDI accepts videos from various professional cameras, laptops and document cameras.
- Receive IP videos via an RJ-45 port. IP videos are streamed using RTMP or SRT protocol.
   With a variety of video interfaces, you no longer need to worry about compatibility of different video devices.





# **Dual Multi-view Modes**

### Landscape Mode: Stream to standard monitors



iCAST 10NDI provides an intuitive preview of output videos. You can view them either horizontally or vertically (a new technology for viewing videos on mobile devices) and preview these mode changes on a Multiview screen.

Select the fourth or fifth channel at the user's discretion.

### Portrait Mode: Stream to mobile phones



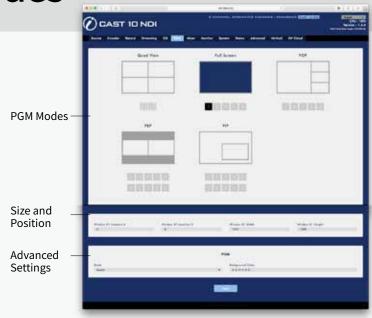
When using the vertical screen mode, you will need to make sure that the cameras are shooting vertically; rotate the cameras if necessary. If the camera is shooting horizontally, crop about one third of the left and right outer edges of the screen and keep the desired image in the center.

Select the fourth or fifth channel at the user's discretion.

**Multiple PGM Modes** 

In addition to displaying a full screen view of the program out video, you can also stream the four input videos live to your audience. The iCAST 10NDI offers five Multiview layouts to allow you to show your input videos all at the same time. The videos can be streamed to all corners of the world and your audience can, with zero delay, participate in your events using a receiver/decoder, personal mobile devices, computers, etc.

In order to satisfy the live audience, the iCAST 10NDI provides physical HDMI outputs, allowing you to connect to TVs, LCD/LED TV walls, etc.



#### **Five PGM Modes**

The iCAST 10NDI offers five different ways to display your output videos:

- 1. Full screen
- 2. POP
- 3. PIP
- 4. Side by side
- 5. Quad view.

#### Side by Side

With the two camera images placed side by side, it is often used during the Q&A session at a conference or House and Senate committee meetings.



#### Full Screen

This is the most traditional way to deliver the complete image to your audience. It is mostly used for teaching and speech scenarios.



#### **Quad View**

The quad view is usually used for remote meetings where all participants can show themselves and interact with one another.



#### PIP

PIP stands for picture in picture which allows the lecturer to show slides, data, examples, etc in a sub window. PIP is useful when data and the lecturer have to display on screen at the same time.



#### POP

This is a multiview layout with one main and three sub windows which is useful in scenarios involving a lot of interaction such as corporate meetings, remote lectures, etc.



## Stream OUT

You no longer need multiple devices to stream your video to multiple platforms. This is now achievable with one iCAST 10NDI.



# Vertical streaming appropriate for video playback on social media

Up to 50% of the videos are viewed on mobiles and 94% of the mobile users hold the phone vertically to view the video. iCAST 10NDI provides vertical streaming which can be generated with only a few basic settings.

#### **Vertical Streaming**

Auto capturing of the image in the center for vertical streaming.





# iCAST 10NDI supports NDI input and output.

iCAST 10NDI offers another alternative to broadcast quality low latency video transmission.

# Supporting SRT protocol so that iCAST 10NDI works well even in slow networks

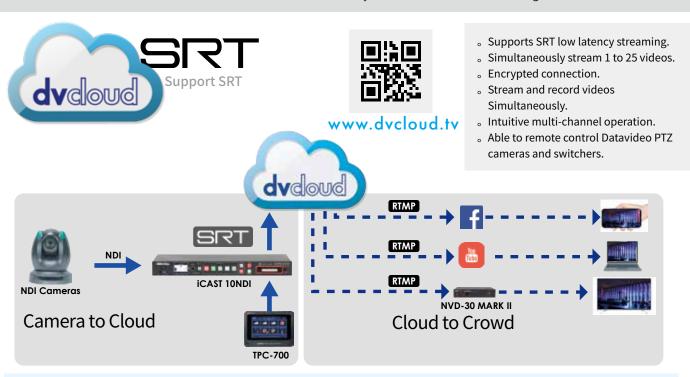
Video latency often results when there is insufficient network bandwidth. iCAST 10NDI supports SRT protocol which mitigates packet loss when the network becomes unstable. Sometimes RTMP may give you stuttering viewing experience but SRT will solve your problem.





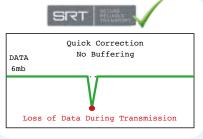
#### Add dvCloud to enhance your streaming experience

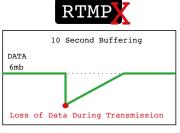
dvCloud, a paid service, is a professional streaming platform developed by Datavideo. Once you've logged in, you can manage all the streaming channels that you have created. You can stream your video up to 25 platforms simultaneously without any time limit while backing up the video on the cloud automatically for future downloads. iCAST 10NDI, SRT and dvCloud form a low latency, secure and reliable streaming workflow.



#### Why use SRT?

RTMP is the most used streaming protocol but SRT is a more efficient solution to counteract video latency and network instability. SRT requires less bandwidth than RTMP so you can still enjoy a reliable streaming service in a low bandwidth network environment. SRT handles problematic networks more efficiently than RTMP protocol because it has a more powerful data processing algorithm so there is less packet loss and the video image can be better recovered.

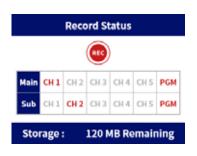




# Recording

#### Easy-to-read LED indicator

The LED indicator can only display two different colors: red or green. A red indicator means that the video is being recorded and a green indicator appears when the record function enters standby mode. The 2" LCD screen on iCAST 10NDI allows you to view the record status of all video channels.

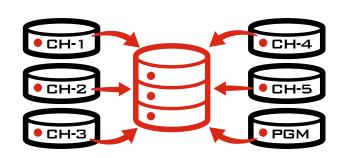




#### **ISO Recording**

ISO recording refers to the ability to create isolated recordings of your five camera inputs and one PGM output for video backup and adding visual effects during post production. ISO recording allows you to save your data locally or on a file server.

ISO recording of five video inputs and one main program output



# H.264 Encoding to back up HD videos

A built-in professional recorder records using H.264 video encoding with configurable resolution, frame rate, video bitrate, etc.

#### Resolution

Supports up to Full HD 1080p50/60 broadcast record quality with a low file size so it is often used for long time recording. Even with a high data compression ratio, fine details of the image can still be retained as well as high recoverable color information.





# Multi-Channel Audio Mixing and Audio-to-Video Synchronization

In addition to embedded audio, we have also provided input ports for external audio such as XLR port and RCA terminals for audio players. The Web audio, the most popular audio source, is another external audio source. You can easily perform professional audio mixing with iCAST 10NDI and at the same time switch between AES and EBU modes so that your output audio will always be compatible with various audio systems in different countries without issues such as unstable audio volume and the audio and video out of sync error.

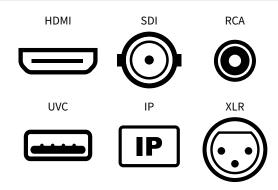


# A variety of audio input and output ports

XLR and stereo RCA ports for external analog audio and a 3.5 mm headphone jack for audio monitoring.

#### **Audio Delay**

iCAST 10NDI is capable of independently delaying each audio channel by adjusting the delay time in order to eliminate the audio and video out of sync error.



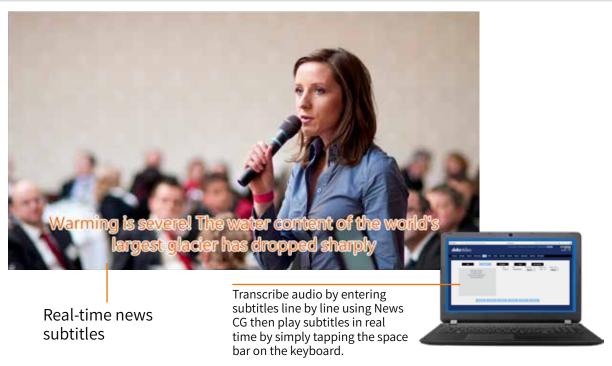


# **Multiple Character Generators**

# Custom real-time captions and subtitles for your programs such as news broadcast

iCAST 10NDI allows you to add graphic elements such as logos, titles, course chapters, event workflows, etc to any input video channels or the program output. These graphic elements can be still images, animated graphics, or simply texts. You can adjust the size, position, color and borders to highlight the information that you wish to convey to your audience. You can also transcribe audio by entering subtitles line by line using News CG after which you will be able to play subtitles in real time by simply tapping the space bar on the keyboard controller.

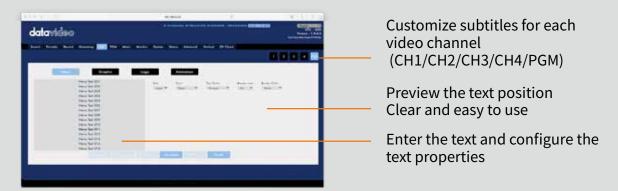
News
Real-time news subtitles
Background image
Logo
Logo
Animation
Animation





Real-time news subtitles

### Character Generator Interface: Intuitive and Easy to Use



#### Two font types

SimSun Yuan

Lecturer: Lecturer:

Professor Chia-Hao Huang Professor Chia-Hao Huang

7 Font Colors

White, Black, Red, Orange, Yellow, Green, Blue

#### Three font border colors







White Border





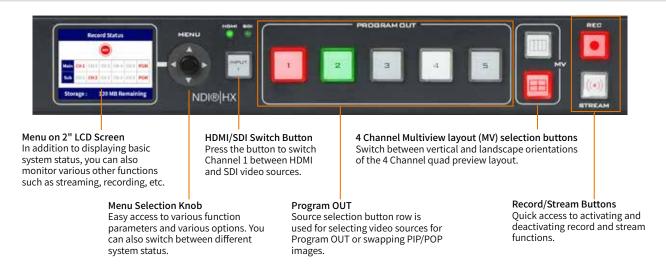


Black Border

## Control

### Multiple Control Protocols:

iCAST 10NDI supports multiple control methods which are DVIP, RS-232, Web UI and the LCD screen. The LCD screen is located on the front panel of the device. DVIP is a control protocol developed by Datavideo for controlling peripheral devices such as cameras, switchers and recorders, allowing you to create a complete video production environment. Additionally, you can also connect TPC-700 which is an external touch panel controller that you can connect to iCAST 10NDI via DVIP to gain access to an intuitive and easy-to-use graphical user interface.



#### 2" LCD Monitor







#### **Audio Delay Setting**



#### **Video Source Settings** Record Status

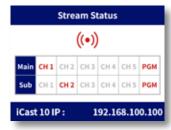


#### IP Setting





#### Stream Status



### Web UI Control



#### PGM



#### CG



#### **Vertical and Portrait Modes**



#### Source



#### Mixer



### Streaming





# DVIP Control Protocol

TPC-700
Touch Panel Controller (Optional)

The iCAST 10NDI APP is installed on the TPC-700 touch panel controller along with many frequently used control settings. The responsive touch panel allows you to easily switch between different control modes, adds versatility to video production and reduces operation complexity.

#### Shortcut key mode 1



#### Shortcut key mode 2



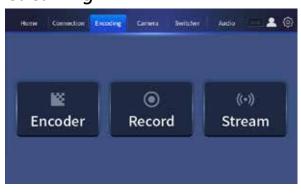
#### Camera Control



#### **Video Switching**



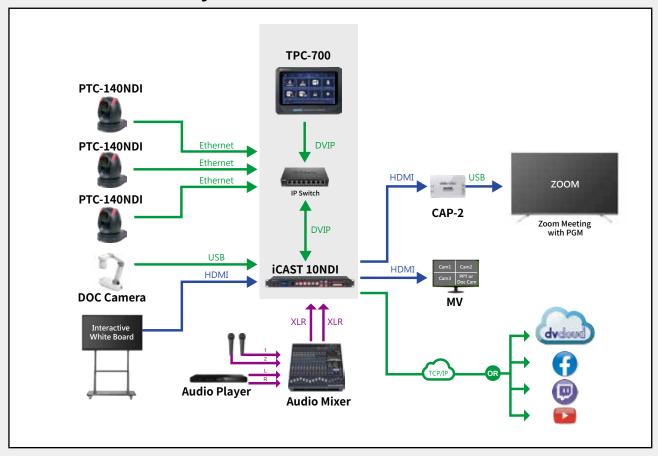
# Video encoding, recording and streaming



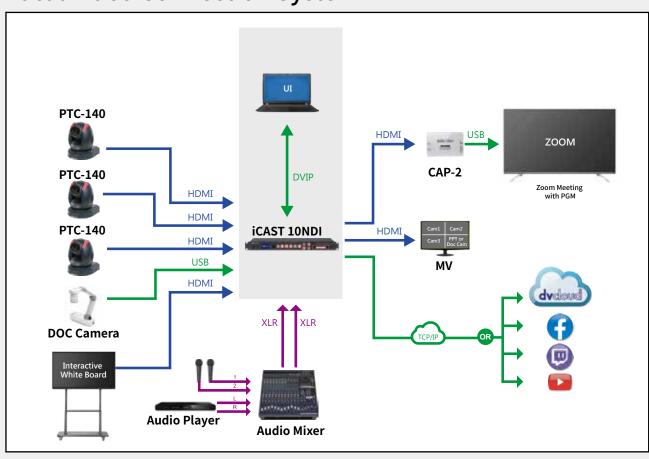
#### Audio mixing and synchronization



### **LAN Controlled System**



### **Local Video Connection System**



### **iCAST 10NDI Specification**

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1080p39/99/15/03/16/30/39/39/39/39/39/39/39/39/39/39/39/39/39/	Tides i simut		
1008/00/59-94/50   1208/00/59-94/50   1208/00/59-94/50   1208/00/59-94/50   1008/00/594			
Tags60/59.94/50   A0059.94/50   A0059.94/5			
Output 1000000000000000000000000000000000000			
1686p60/59.94/50   1080p60/59.94/50   1080p60/59.		480i59.94, 576i50	
1686p60/59.94/50   1080p60/59.94/50   1080p60/59.			
1886p3073917547423.98   10806057394750   10806057394750   1080605394750   10		Output:	
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Digital Embedded Audio Support  HDMI Embedded x1, VDC embedded x1, XLRx 2ch, Line in x1, IP stream decoded audio x2, XLR 2ch, Line in x1, IP stream decoded audio x2, XLRx 2ch, Line in x1, IP stream decoded audio x2, XLR 2ch, Line in x1, IP stream decoded audio x2, XLR 2ch, Line in x1, IP stream decoded audio x2, XLR 2ch, Line in x1, IP stream decoded audio x2, XLR 2ch, Line in x1, IP stream decoded audio x2, XLR 2ch, Line in x1, IP stream decoded audio x2, XLR 2ch, Line in x1, IP stream decoded audio x2, XLR 2ch, Line in x1, IP stream decoded audio x2, XLR 2ch, Line in x1, IP stream decoded audio x2, XLR 2ch, Line in x1, IP stream decoded audio x2, XLR 2ch, Line in x2, XLR 2ch, Line in x2, XLR 2ch, Line in x1, IP stream decoded audio x1			
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Audio Delay Calibration Art Switching Yes Title Creator Web GUI Picture in Picture Logo Insertion Effects Cut Transition Preview N/A Sync / Reference In/Out Ally Output P. Remote Control Built-in Audio Mixer Storage SATA (6Gb/s) Recording file system Recording file format Web Video Encode Audio Encode Audio Encode Audio Encode Audio Encode Streaming Protocol  Streaming Protocol  Streaming Protocol  DHCP client To Sover UDP (unicast & multicast) RTSP over HTTP/TCP/UDP RTM (Publish)/RTMPS HLS SRT Caller and Listener Web BTC (encode/decode) NDI   Ik Firmware Update Special Features Vertical video Ctrop or rotate Vertical video Ctrop or rotate Vertical video Ctrop Unicast in the Box  Chassis Dimension (LxWxH) Web GUI NSD Externovable Holds I Screw for 2,9 Removable Holds I Screw for 2,9 Removable Holds I X-2 Sempour or I X-3 Sempour or I X-4 Sempour or I X-5 Sempour or I X-4 Sempour or I X-5 Sempou	Digital Embedded Audio Support	HDMI Embedded x4, SDI embedded x1, UVC embedded x1, XLR x 2ch, Line in x1,	
Av Switching		IP stream decoded audio x2	
Title Creator   Web GUI   Picture in Picture   Yes (PGM)   Logo Insertion   Yes   Effects   Cut   Transition Preview   N/A   Sync / Reference In/Out   N/A   Tally Output   N/A   PC Remote Control   Web Ut for system configuration and control   Serial Port Control: RS-232 (RJ-45)   Yes   Storage   SATA (66b/s)   Recording file system   FAT, NTFS, exFAT   Recording file format   MPA   Video Encode   H,264   Audio Encode   H,264   Audio Encode   H,264   Audio Encode   H,264   AC-CL   Sample rate: 48KHz, 16bit   AC-CL   Sample rate: 128K or 256K or 384K   Streaming Protocol   DHCP client   TS over UDP (unicast & multicast)   RTSP over HTTPTCP/UDP   RTMP (Publish)/RTMPS   HLS   SRT Caller and Listener   Web RTC (encode/decode)   NDI   Hx   Firmware Update   Special Features   Vertical video: Crop or rotate   Vertical v			
Picture in Picture Logo Insertion Effects Cut Transition Preview N/A Sync / Reference In/Out N/A PC Remote Control  Built-in Audio Mixer Storage Storage Storage SATA (665/s) Recording file system Recording file system Recording file format Video Encode Audio Encode Audio Encode AAC-LC Sample rate: 48KHz, 16bit AAC-LC Sample rate: 48KHz, 16bit Configurable bit rate: 128K or 256K or 384K  Streaming Protocol  Streaming Protocol  To ever UDP (unicast & multicast) RTS pover HDTP/TCP/UDP RTMP (Publish)/RTMPS HLS STC Caller and Listener Web RTC (encode/decode) NDI   Hx Firmware Update Special Features  Chassis Dimension (LxWxH) Weight 12 9 kg Power DC 12V 24W Operating Temp. Range What's in the Box  1 x SC Removable HDD/SSD Enclosure 4 x Screws for 2.5 Removable HDD/SSD Enclosure 1 x SIR Calles In SUR 30 C Abile 1 x SATA to USB 3.0 Cable			
Lege Insertion Effects Cut Transition Preview N/A Sync / Reference In/Out Ally Output PC Remote Control Web UI for system configuration and control Serial Port Control: RS-232 (RJ-45)  Built-in Audio Mixer Yes SATA (GGb/s) Recording file system Recording file format MP4 Video Encode ALC Sample rate: 48KHz, 16bit AAC-LC Sample rate: 48KHz, 16bit Configurable bit rate: 128K or 256K or 384K  Streaming Protocol  Streaming Protocol  Streaming Protocol  Streaming Protocol  Firmware Update Special Features Web RTC (encode/decode) NDI  Hx Web UI (network) Special Features Vertical video crop or rotate Vertical video wiltview Chassis Dimension (LxWxH) Weight 2.9 kg Power DC 12V 24W Operating Temp. Range V-40° C What's in the Box  Last Removable HDD/SSD Enclosure 4 x Screws for 2.5 Removable HDD/SSD Enclosure 1 x SATA to USB 3.0 Cable			
Effects Cut Transition Preview N/A Sync / Reference In/Out N/A Tally Output N/A PC Remote Control Web Ul for system configuration and control Serial Port Control: RS-232 (RJ-45)  Built-in Audio Mixer Yes Storage SATA (66b/s) Recording file system FAT, NTFS, exFAT Recording file format MP4 Video Encode H. 264 Audio Encode H. 264 Audio Encode AAC-LC Sample rate: 48KHz, 16bit AAC-LC Sample rate: 48KHz, 16bit Configurable bit rate: 128K or 256K or 384K  Streaming Protocol DHCP client TS over UpP (unicast & multicast) RTSP over HTTP/TCP/UDP RTMP (Publish)/RTMPS HLS SRT Caller and Listener Web RTC (encode/decode) NDI Hx Firmware Update Web UI (network) Special Features Vertical video Multiview Chassis IRU rack-mount mainframe Johnsonion (LxWxH) Weight 2.9 kg Power DC 12V 24W Operating Temp. Range O-40° C What's in the Box Ix KCRWS In Caller Ix SATA to USB 3.0 Cable			
Transition Preview N/A Sync / Reference In/Out N/A Tally Output N/A PC Remote Control Web Ul for system configuration and control Serial Port Control: RS-232 (RJ-45)  Built-in Audio Mixer Yes Storage SATA (6Gb/s) Recording file system FAT, NTFS, exFAT Recording file format MP4 Video Encode H,264 Audio Encode AAC-LC Sample rate: 48KHz, 16bit AAC-LC Sample rate: 48KHz, 16bit Configurable bit rate: 128K or 256K or 384K  Streaming Protocol DHCP (client TS over UDP (unicast & multicast) RTSP over HTTP/TCP/UDP RTMP (Publish)/RTMPS HLS SRT Caller and Listener Web RTC (encode/decode) NDI   Hx Firmware Update Web Ul (network) Special Features Vertical video: crop or rotate Vertical video: will not mainframe Jünension (LXWxH) Weight 2,5 kg Power DC 12V 24W Operating Temp. Range O-40° C What's in the Box 1 x iCAST 10DI main unit 1 x DC 12V Power Adaptor 2 x 1U Rack Mount Ear 1 x 2.5 Removable HDD/SSD Enclosure 4 x Screws for Rack Mount Ear 1 x 2.5 Removable HDD/SSD Enclosure 1 x Blank Label 1 x SATA to USB 3.0 Cable			
Sync / Reference In/Out N/A Tally Output N/A PC Remote Control Web Ul for system configuration and control Serial Port Control: RS-232 (RJ-45)  Built-in Audio Mixer Yes Storage SATA (66b/s) Recording file system FAT, NTFS, exFAT Recording file format MP4 Video Encode H. 264 Audio Encode AAC-LC Sample rate: 48KHz, 16bit AAC-LC Sample rate: 48KHz, 16bit Configurable bit rate: 128K or 256K or 384K  Streaming Protocol DHCP client TS over UDP (unicast & multicast) RTSP over HTTP/TCP/UDP RTMP (Publish)/RTMPS HLS SRT Caller and Listener Web RTC (encode/decode) NDI   Hx  Firmware Update Web UI (network) Special Features Vertical video Multiview Chassis IRU rack-mount mainframe 440x284x44 Weight 2.9 kg Power DC 12V 24W Operating Temp. Range O-40°C What's in the Box Ix iCAST 10NDI main unit 1 x 2.5 Removable HDD/SSD Enclosure 1 x Blank Label 1 x SATA to USB 3.0 Cable			
Tally Output PC Remote Control Web UI for system configuration and control Serial Port Control: RS-232 (RJ-45)  Built-in Audio Mixer Yes Storage SATA (6Gb/s) Recording file system Recording file format MP4 Video Encode Audio Encode AAC-LC Sample rate: 48KHz, 16bit AAC-LC Sample rate: 48KHz, 16bit Configurable bit rate: 128K or 256K or 384K  Streaming Protocol  Streaming Protocol  TS over UDP (unicast & multicast) RTSP over HTTP/TCP/UDP RTMP (Publish)/RTMPS HLS SRT Caller and Listener Web RTC (encode/decode) NDI   Hx  Firmware Update Special Features Vertical video: crop or rotate Vertical video Multiview Chassis IRU rack-mount mainframe Dimension (LxWxH) Weight 2.9 kg Power DC 12V 24W Operating Temp. Range What's in the Box  Vertical via Company of the Company of the Color o			
PC Řemote Control  Web UI for system configuration and control Serial Port Control: RS-232 (RJ-45)  Built-in Audio Mixer  Yes Storage SATA (66b/s) Recording file system Recording file format MP4 Video Encode Audio Encode AL-CC Sample rate: 48KHz, 16bit AAC-LC Sample rate: 48KHz, 16bit Configurable bit rate: 128K or 256K or 384K  Streaming Protocol  DHCP client TS over UDP (unicast & multicast) RTSP over HTTP/TCP/UDP RTMP (Publish)/RTMPS HLS SRT Caller and Listener Web RTC (encode/decode) NDI   Hx  Firmware Update Special Features Vertical video wultiview Chassis IRU rack-mount mainframe Update Vertical video wultiview Chassis IRU rack-mount mainframe Dimension (LxWxH) Weight 2.9 kg Power DC 12V 24W Operating Temp. Range W-d S Crews for Rack Mount Ear 6 x M S Crews for Rack Mount Ear 1 x D. 12V Power Adaptor 2 x 1U Rack Mount Ear 6 x M S Crews for Rack Mount Ear 1 x 2.5 Removable HDD/SSD Enclosure 1 x Blank Label 1 x SATA to USB 3.0 Cable		,	
Serial Port Control: RS-232 (RJ-45)  Yes  Storage SATA (6Gb/s)  Recording file system Recording file format MP4  Video Encode ALC-LC Sample rate: 48KHz, 16bit AAC-LC Sample rate: 48KHz, 16bit AC-LC Sample rate: 48KHz, 16bit Configurable bit rate: 128K or 256K or 384K  Streaming Protocol  Streaming Protocol  TS over UDP (unicast & multicast) RISP over HTTP/TCP/UDP RTMP (Publish)/RTMPS HLS SRT Caller and Listener Web RTC (encode/decode) NDI   Hx  Firmware Update Special Features Vertical video: crop or rotate Vertical video: crop or rotate Vertical video Multiview Chassis Dimension (LxWxH) Weight Dimension (LxWxH) Weight 2.9 kg Power DC 12V 24W Operating Temp. Range What's in the Box  Vertical Verwork Dell main unit 1 x DC 12V Power Adaptor 2 x 1U Rack Mount Ear 6 x M Screws for Rack Mount Ear 1 x 2.5 Removable HDD/SSD Enclosure 1 x Blank Label 1 x SATA to USB 3.0 Cable		,	
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Storage Recording file system Recording file format WP4 Video Encode Audio Encode ALC-LC Sample rate: 48KHz, 16bit AAC-LC Sample rate: 48KHz, 16bit Configurable bit rate: 128K or 256K or 384K  Streaming Protocol  Streaming Protocol  DHCP client TS over UDP (unicast & multicast) RTSP over HTTP/TCP/UDP RTMP (Publish)/RTMPS HLS SRT Caller and Listener Web RTC (encode/decode) NDI   Hx  Firmware Update Special Features Vertical video: crop or rotate Vertical video (crop or rotate Vertical video Multiview  Chassis IRU rack-mount mainframe Dimension (LxWxH) Weight Q. 9 kg Power Operating Temp. Range O-40° C What's in the Box  Vi CAST 10NDI main unit 1 x DC 12V 24W Operating Temp. Range O-40° C 2 x 1U Rack Mount Ear 6 x M4 Screws for Rack Mount Ear 1 x 2.5 Removable HDD/SSD Enclosure 4 x Screws for 2.5 Removable HDD/SSD Enclosure 1 x Blank Label 1 x SATA to USB 3.0 Cable	Built-in Audio Miyer	, ,	
Recording file system Recording file format WP4 Recording file format WP4 Video Encode Audio Encode AAC-LC Sample rate: 48KHz, 16bit AAC-LC Sample rate: 48KHz, 16bit Configurable bit rate: 128K or 256K or 384K  Streaming Protocol DHCP client TS over UDP (unicast & multicast) RTSP over HTTP/TCP/UDP RTMP (Publish)/RTMPS HLS SRT Caller and Listener Web RTC (encode/decode) NDI   Hx  Firmware Update Special Features Vertical video: crop or rotate Vertical video: crop or rotate Vertical video Multiview Chassis 1RV rack-mount mainframe Dimension (LxWxH) Weight Dimension (LxWxH) A40x284x44 Weight Doperating Temp. Range D-40° C What's in the Box Vertical Vack Mount Ear 6 x M4 Screws for Rack Mount Ear 6 x M4 Screws for Rack Mount Ear 6 x M4 Screws for Rack Mount Ear 1 x 2.5 Removable HDD/SSD Enclosure 4 x Screws for Rack Mount Ear 1 x Elank Label 1 x SATA to USB 3.0 Cable			
Recording file format Video Encode Audio Encode AAC-LC Sample rate: 48KHz, 16bit AAC-LC Sample rate: 48KHz, 16bit Configurable bit rate: 128K or 256K or 384K  Streaming Protocol  Streaming Protocol  TS over UDP (unicast & multicast) RTSP over HTTP/TCP/UDP RTMP (Publish)/RTMPS HLS SRT Caller and Listener Web RTC (encode/decode) NDI   Hx  Firmware Update Special Features  Vertical video: crop or rotate Vertical video: wultiview  Chassis IRU rack-mount mainframe Dimension (LxWxH) Weight Power Operating Temp. Range  U-0 ° C What's in the Box  Vertical Video Multiview  Lx CAST 10NDI main unit 1 x DC 12V Power Adaptor 2 x 1U Rack Mount Ear 6 x M4 Screws for Rack Mount Ear 6 x M4 Screws for Rack Mount Ear 6 x M4 Screws for Rack Mount Ear 1 x 2.5 Removable HDD/SSD Enclosure 4 x Screws for 2.5 Removable HDD/SSD Enclosure 1 x Blank Label 1 x SATA to USB 3.0 Cable			
Video Encode Audio Encode AdC-LC Sample rate: 48KHz, 16bit AAC-LC Sample rate: 48KHz, 16bit Configurable bit rate: 128K or 256K or 384K  Streaming Protocol  DHCP client TS over UDP (unicast & multicast) RTSP over HTTP/TCP/UDP RTMP (Publish)/RTMPS HLS SRT Caller and Listener Web RTC (encode/decode) NDI   Hx  Firmware Update Special Features Web U (network) Special Features Vertical video Crop or rotate Vertical video Multiview Chassis IRU rack-mount mainframe Dimension (LxWxH) Weight 2.9 kg Power DC 12V 24W Operating Temp. Range Web U (ack video Crop or Control of Co			
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AAC-LC Sample rate: 48KHz, 16bit Configurable bit rate: 128K or 256K or 384K  Streaming Protocol  DHCP client TS over UDP (unicast & multicast) RTSP over HTTP/TCP/UDP RTMP (Publish)/RTMPS HLS SRT Caller and Listener Web RTC (encode/decode) NDI   Hx Web UI (network) Special Features  Vertical video: crop or rotate Vertical video Multiview  Chassis Dimension (LxWxH) 440x284x44 Weight 2.9 kg Power Operating Temp. Range 0-40 ° C What's in the Box  1 x ICAST 10NDI main unit 1 x DC 12V Power Adaptor 2 x 1U Rack Mount Ear 6 x M4 Screws for Rack Mount Ear 1 x 2.5 Removable HDD/SSD Enclosure 4 x Screws for 2.5 Removable HDD/SSD Enclosure 1 x Blank Label 1 x SATA to USB 3.0 Cable	Audio Encode	AAC-LC	
Sample rate: 48KHz, 16bit Configurable bit rate: 128K or 256K or 384K  Streaming Protocol  DHCP client TS over UDP (unicast & multicast) RTSP over HTTP/TCP/UDP RTMP (Publish)/RTMPS HLS SRT Caller and Listener Web RTC (encode/decode) NDI   Hx  Firmware Update Web UI (network) Special Features Vertical video: crop or rotate Vertical video Multiview  Chassis IRU rack-mount mainframe Dimension (LxWxH) 440x28x444 Weight 2.9 kg Power DC 12V 24W Operating Temp. Range 0~40° C What's in the Box  1 x iCAST 10NDI main unit 1 x DC 12V Power Adaptor 2 x 1U Rack Mount Ear 6 x M4 Screws for Rack Mount Ear 1 x 2.5 Removable HDD/SSD Enclosure 4 x Screws for 2.5 Removable HDD/SSD Enclosure 1 x Blank Label 1 x SATA to USB 3.0 Cable		Sample rate: 48KHz, 16bit	
Configurable bit rate: 128K or 256K or 384K  Streaming Protocol  DHCP client TS over UDP (unicast & multicast) RTSP over HTTP/TCP/UDP RTMP (Publish)/RTMPS HLS SRT Caller and Listener Web RTC (encode/decode) NDI   Hx  Firmware Update Web UI (network) Special Features  Vertical video: crop or rotate Vertical video multiview  Chassis IRU rack-mount mainframe Dimension (LxWxH) Weight 2.9 kg Power DC 12V 24W Operating Temp. Range O-40 ° C What's in the Box  1 x iCAST 10NDI main unit 1 x D C 12V Power Adaptor 2 x 1U Rack Mount Ear 6 x M4 Screws for Rack Mount Ear 1 x 2.5 Removable HDD/SSD Enclosure 4 x Screws for 2.5 Removable HDD/SSD Enclosure 1 x Blank Label 1 x SATA to USB 3.0 Cable		AAC-LC	
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HLS SRT Caller and Listener Web RTC (encode/decode) NDI   Hx  Firmware Update Special Features Web UI (network) Special Features Vertical video: crop or rotate Vertical video: crop or rotate Vertical video: web UI (network) Special Features  1RU rack-mount mainframe Dimension (LxWxH) 440x284x44 Weight 2.9 kg Power DC 12V 24W Operating Temp. Range 0~40 ° C What's in the Box 1 x iCAST 10NDI main unit 1 x DC 12V Power Adaptor 2 x 1U Rack Mount Ear 6 x M4 Screws for Rack Mount Ear 1 x 2.5 Removable HDD/SSD Enclosure 4 x Screws for 2.5 Removable HDD/SSD Enclosure 1 x Blank Label 1 x SATA to USB 3.0 Cable		, ,	
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Firmware Update Special Features  Web UI (network) Special Features  Vertical video: crop or rotate Vertical video Multiview  Chassis  IRU rack-mount mainframe Dimension (LxWxH)  440x284x44  Weight 2.9 kg Power  DC 12V 24W Operating Temp. Range 0~40 ° C  What's in the Box  1 x iCAST 10NDI main unit 1 x DC 12V Power Adaptor 2 x 1U Rack Mount Ear 6 x M4 Screws for Rack Mount Ear 1 x 2.5 Removable HDD/SSD Enclosure 4 x Screws for 2.5 Removable HDD/SSD Enclosure 1 x Blank Label 1 x SATA to USB 3.0 Cable			
Firmware Update Special Features  Vertical video: crop or rotate Vertical video Multiview  Chassis  IRU rack-mount mainframe Dimension (LxWxH)  Weight  Power  Operating Temp. Range  O~40 ° C  What's in the Box  I x i CAST 10NDI main unit  1 x DC 12V Power Adaptor  2 x 1U Rack Mount Ear  6 x M4 Screws for Rack Mount Ear  1 x 2.5 Removable HDD/SSD Enclosure  4 x Screws for 2.5 Removable HDD/SSD Enclosure  1 x Blank Label  1 x SATA to USB 3.0 Cable			
Special Features  Vertical video: crop or rotate Vertical video Multiview  Chassis  IRU rack-mount mainframe Dimension (LxWxH)  440x284x44  Weight  2.9 kg Power  DC 12V 24W Operating Temp. Range  0~40 ° C  What's in the Box  1 x iCAST 10NDI main unit 1 x DC 12V Power Adaptor 2 x 1U Rack Mount Ear 6 x M4 Screws for Rack Mount Ear 1 x 2.5 Removable HDD/SSD Enclosure 4 x Screws for 2.5 Removable HDD/SSD Enclosure 1 x Blank Label 1 x SATA to USB 3.0 Cable	Firmware Undato		
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Operating Temp. Range  0~40 ° C  What's in the Box  1 x iCAST 10NDI main unit  1 x DC 12V Power Adaptor  2 x 1U Rack Mount Ear  6 x M4 Screws for Rack Mount Ear  1 x 2.5 Removable HDD/SSD Enclosure  4 x Screws for 2.5 Removable HDD/SSD Enclosure  1 x Blank Label  1 x SATA to USB 3.0 Cable	Power		
What's in the Box  1 x iCAST 10NDI main unit  1 x DC 12V Power Adaptor  2 x 1U Rack Mount Ear  6 x M4 Screws for Rack Mount Ear  1 x 2.5 Removable HDD/SSD Enclosure  4 x Screws for 2.5 Removable HDD/SSD Enclosure  1 x Blank Label  1 x SATA to USB 3.0 Cable	Operating Temp. Range		
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4 x Screws for 2.5 Removable HDD/SSD Enclosure 1 x Blank Label 1 x SATA to USB 3.0 Cable			
1 x Blank Label 1 x SATA to USB 3.0 Cable			
1 x SATA to USB 3.0 Cable			
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