T-CAM Package CM70

Description

> The T-CAM Package CM70 is a complete and out-of-the-box solution for conference camera tracking.

It allows straight-forward installation, fast configuration and integration of a camera tracking system with any Televic Conference system. The T-CAM solution controls up to 4 IP-CAM CM70[1], using the 3G-SDI connectivity.

By combining hardware and software, the T-CAM solution makes it easy to use and control cameras. Installers can quickly set up cameras, create talking heads, automatically switch the camera between participants, and even add a participant's name as an overlay[2] on top of the image. The end result is a package that makes camera integration plug and play.

The T-CAM Package CM70 solution comes in 3 different packages.

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1.   The basic package includes 2 cameras by default. One additional license required for each additional camera. (for a maximum of 4 cameras)
2.   Available as an add-on in the T-CAM Name Overlay package.

Packages

Basic T-CAM Package CM70 [71.98.1305]
The basic package contains everything you need for a basic camera tracking set-up:
»   2 IP-CAM CM70 cameras
»   Preview capture card: Blackmagic DeckLink Mini Recorder
»   Video switcher: Blackmagic ATEM 1M/E Constellation HD
»   T-CAM Software: PC software with a license for control of 2 cameras
»   BlackMagic Micro Converter SDI to HDMI

IP-CAM CM70 Camera & License [71.98.1306]
Adds another camera and a camera license. Up to 2 packages may be ordered for a maximum of 4 cameras.
»   1 IP-CAM CM70 Camera
»   Camera interconnection cables
»   1 license for one additional camera

T-CAM Name Overlay [71.98.1302]
This add-on allows an overlay to be added onto the video output by using an additional capture card.
»   1 license for name overlay
»   Capture card: Blackmagic DeckLink Mini Recorder

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Global Features

T-CAM is built for seamless integration with Televic Conference systems and allows a number of features out of the box.

» Integrates perfectly with D-Cerno, Plixus engine, CoCon, Confidea G3 and Confidea G4.
» Creation of a synoptic for easy configuration of camera positions
» 2 shots per seat
» 2 shots for the wide shot
» Multiple seat configurations immediately available for flexible seating arrangements
» Configuration of camera positions can be done with the software or with a USB-joystick (not included in any of the packages)
» Camera control over serial connection and IP connection
» 20× Optical zoom on cameras
» Software may be upgraded to webcasting software

Product Features

Full HD PTZ Camera
» Camera

The T-CAM solution is a dynamic PTZ camera tracking solution ideally suited for conference room settings. With Full HD 1080p output at 60 fps, the camera provides excellent images. Additionally, the 20× zoom, outstanding white balance and exposure mode, bring even the smallest details into focus, especially in darker conference rooms where lighting conditions may be poor.

With a wide viewing angle (horizontal -170° to +170°, tilting up to 90° and down to -30°), fast response and smooth operation, the camera captures every move securely.

Finally, the 3G-SDI interface allows for crystal-clear and uncompressed video without delays. Combined with Televic Conference's Plixus network, working with high-quality, lip-synced video becomes a joy.

Blackmagic DeckLink Mini
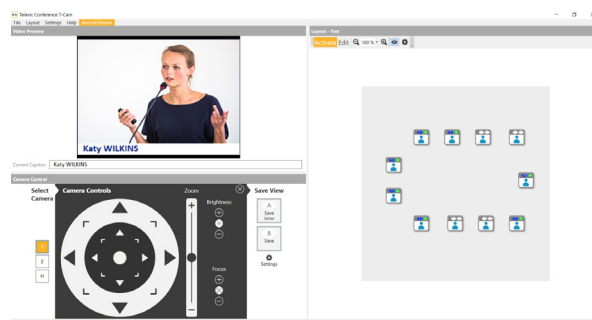» Capture Card

Blackmagic ATEM 1/M Constellation HD
» Video Switcher

The Blackmagic ATEM video switcher puts a host of video switching options easily at your fingertips. It includes 10 3G-SDI video inputs to convert any 1080p input source, making it ideal to use with the T-Cam cameras. It includes a large LCD front panel to see program output and change the switcher settings via the on-screen menu.

T-CAM Camera Control
» Software

Configure camera positions, assign name overlays (separate license required), set up 2 shots per seat, wide shots, etc. Manual override is available.

BlackMagic Micro Converter SDI to HDMI
» HDMI converter

System Requirements
Recommended PC requirements:
» Desktop PC with at least 1 PCI slot. 2 PCI slots, if both preview and overlay are required.
» Windows 7, 8, 10 and 11 supported
» Serial COM port (USB to Serial converter can be used as well) when not used with IP connection
» PoE switch when used with IP connection

Standard USB joystick can be connected for camera control. Recommended joystick: Axis T8310.

Specifications

T-CAM Package CM70

Mechanical	
Weight	1.5 kg
Size packed	26 x 24 x 24 cm
Weight packed	2.4 kg

IP-CAM CM70

Technical & Electrical	
Sensor	1/3" CMOS, 2.12 mp, 16:9
Video output	1080p 60 / 59.94 / 50 fps, 1080p 30 / 29.97 / 25 fps, 720p 60 / 59.94 / 50 fps
Optical zoom	20×
Panning angle	-170° ~ +170°
Tilting angle	-30° ~ +90°
Video output (HD) interface	3G-SDI
PoE	PoE 12 W (802.3af)
Camera control interface	RS-232 / RS-422 / Ethernet
Camera control protocol	VISCA / PELCO-P / PELCO-D
Video S/N ratio	> 55 dB
Focal length	4.4-88.8 mm
Digital noise reduction	2D & 3D DNR
Horizontal viewing angle	55.2° ~
Vertical viewing angle	3.2° 42.1° ~

Aperture	F1.8-F11
Minimum illumination	0.05 LUX
Gain control	Auto, manual
White balance	Auto, manual, OnePush, 2,400 K - 7,100K in steps of 100K
H&V image flip	Supported 255
Audio input	Balanced Line In via 5-way Phoenix connector
Audio output	Ethernet, SDI and HDMI
Environmental	
Operating Temperature	-5° C to 40° C (23° - 104°F)
Storage Temperature	-20° to 60° C (-4° to 140° F)
Relative Humidity	20% to 95% non-condensing

Blackmagic ATEM 1/M Constellation HD

Technical & Electrical	
Power Supply	1 x Internal 100 - 240 AC
Power Usage	36 W
Dimensions	28 x 4.4 x 17.6 cm
Connections	
Total Video Inputs	10
Total Video Outputs	6
SDI Rates	1.5G, 3G
Total Audio Inputs	2 x balanced 1/4 inch Jack 1 x 5 pin XLR Talkback
Total Audio Outputs	1 x 5 pin XLR Talkback
SDI Audio Inputs	4 x 10-bit SD/HD switchable. 2 channel embedded audio.
SDI Audio Inputs	2 Ch embedded audio on all SDI inputs
SDI Audio Outputs	2 Ch embedded audio on all SDI outputs
Reference Input	Tri-Sync or Black Burst
Video Input Re-Sync	On all 10 inputs
Frame Rate and Format Converters	On all 10 inputs
SDI Aux Outputs	Any of the 6 SDI outputs
SDI Preview Outputs	Any of the 6 SDI outputs.
SDI Program Output	Any of the 6 SDI outputs

Webcam Output	1 x USB-C supporting 720p or 1080p at PGM frame rate
Total Multi Views	1 x 3G-SDI
Control Panel Connection	Ethernet. Direct connection between panel and chassis, or via network.
Internal Timecode Generator	Yes
Talkback	RJ45 for 3rd party talkback systems
Ethernet	10/100/1000 BASE-T
Computer Interface	1 x USB-C supports USB 3.1 Gen 1 (5Gb/s)
Standards	
SD Video Standards	None
HD Video Standards	720p50, 720p59.94, 720p60, 1080i50, 1080i59.94, 1080i60 1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080p50, 1080p59.94, 1080p60
SDI Compliance	SMPTE 292M, SMPTE 296M, SMPTE 424M, SMPTE 425M level A and B
Video Sampling	4:2:2
Color Precision	10-bit
Color Space	REC 709
SDI Auto Switching	Automatically detects between 1.5G-SDI and level A or level B 3G-SDI
Display	
Front panel	Built in 2.2"LCD monitor for video, 10 LED buttons for setup and emergency switching, 4 source buttons, 6 talkback selection and mix buttons, menu control knob and set button, front panel lock button.
Environmental	
Operating Temperature	0° to 40°C (32° to 104°F)
Storage Temperature	-20° to 60°C (-4° to 140° F)
Relative Humidity	0% to 90% non-condensing