T-CAM Camera Tracking Package

Description

The T-Cam Camera Tracking package 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-CAM50[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 Camera Tracking 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 [71.98.1303]

The basic package contains everything you need for a basic camera tracking set-up:

- » 2 IP-CAM50 cameras
- » Camera interconnection cables
- » Preview capture card: Blackmagic DeckLink Mini Recorder
- » Video switcher: Blackmagic ATEM Television Studio HD
- » T-Cam Software: PC software with a license for control of 2 cameras
- » BlackMagic Micro Converter SDI to HDMI

IP-CAM 50 Camera & License [71.98.1304]

Adds another camera and a camera license. Up to 2 packages may be ordered for a maximum of 4 cameras.

- » 1 IP-CAM 50 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 (Core), CoCon, and Confidea G3
» 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)
» Manual switch to HDMI input for static input (e.g.: presentation laptop)
» 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°) and 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
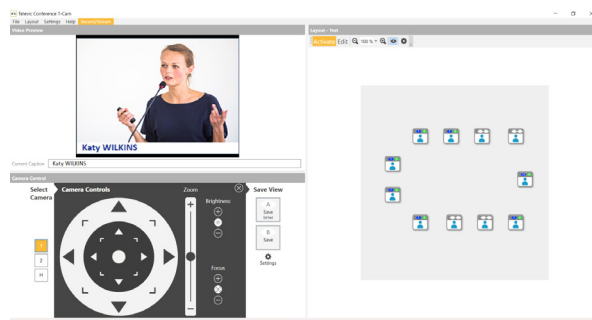» Capture Card

Blackmagic ATEM Television Studio HD
» Video Switcher

The Blackmagic ATEM video switcher puts a host of video switching options easily at your fingertips. It includes 8 video inputs with both broadcast SDI and consumer HDMI inputs, making it ideal for use with the T-Cam cameras.

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 and 10 supported
» Serial COM port (USB to Serial converter can be used as well).

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

Specifications

T-CAM Camera Tracking Package

Mechanical	
Size (mm)	570 x 300 x 420
Weight	11400g

IP-CAM50

Technical & Electrical	
Sensor	1/2.8" 2 MP CMOS
Video Output	1080p 60 / 59.94 / 50 fps, 1080i 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°
Preset Positions	128
Video Output(HD) Interface	3G-SDI
PoE	PoE+ (IEEE802.3at)
Camera Control Interface	RS-232 / RS-422 / Ethernet
Camera Control Protocol	VISCA / PELCO D
Video S/N Ratio	> 50dB
Shutter Speed	1/1 ~ 1/10,000 sec
Focal Length	f = 4.7 ~ 94 mm

3D NR	Yes
Horizontal Viewing Angle	63°
Aperture	F1.6 ~ 3.5
Minimum Illumination	1.0 lux (F1.6, 50 IRE, 30fps)
Minimum Object Distance	1.2m
Gain Control	Auto, manual
White Balance	Auto, indoor, outdoor, one-push, manual
Exposure Control	Auto, manual
Focus System	Auto, manual
Image Flip	Yes
Audio Input	Line In / MIC In
Audio Output	Ethernet, SDI and HDMI

Environmental

Operating Temperature	5° C to 40° C (41° - 104°F)
Storage Temperature	-10° to 60° C (14° to 140° F)
Relative Humidity	0% to 90% non-condensing

Blackmagic ATEM Television Studio HD

Technical & Electrical

Total Video Inputs	8
Total Video Outputs	8
SDI Rates	270Mb, 1.5G, 3G.
SDI Video Inputs	4 x 10-bit SD/HD switchable. 2 channel embedded audio.
SDI Program Output	5 × 10-bit SD/HD switchable
SDI Audio Outputs	2 Ch embedded into SDI output
SD Video Standards	525i59.94 NTSC 4:3 or 16:9, 625i50 PAL 4:3 or 16:9
HD Video Standards	720p50, 720p59.94 1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p50, 1080p59.94, 1080i50, 1080i59.94
SDI Compliance	SMPTE 259M, 292M and 424M
Video Sampling	4:2:2 10-bit
Color Precision	4:2:2 10-bit
Color Space	4:2:2 YUV
Power Supply	1 x internal 110 – 240V AC