



HIGH-SPEED
VIDEO
MADE EASY

High-Speed Camera **TROUBLEPAD**

Process Analysis
Industrial Maintenance



TROUBLEPAD

Standalone, simple, ultra compact, affordable

High-speed camera for production line maintenance
and high-cycle-rate machines



TroublePad 'Classic'
Camera



TroublePad Ultra Camera
with motorized lens



TroublePad
Waterproof Camera

The essentials Simple and effective

The TroublePad high-speed camera allows you to **capture, diagnose** and **understand fleeting or random events** occurring on your **production lines** or on your specialized **high-cycle-rate machines**.

- ✓ **Quick** installation
- ✓ **Standalone** operation
- ✓ **Built-in** lighting
- ✓ **Integrated software** on a touchscreen tablet
- ✓ Stored in an easy-to-carry **carrying case**



TroublePad Station in its carrying
case

TroublePad is an
ultra-portable
high-speed
video system



TroublePad high-speed camera on its
mounting arm with tablet software

Ease of use and maximum intuitiveness

Within minutes with the TroublePad high-speed camera, you will record your first sequences!

Instant playback of your slow-motion images will help you **understand anomalies invisible to the naked eye**. At your fingertips, you will access all TroublePad software features:



TroublePad Camera with high-power lighting (optional)



High-speed recording



Selection and slow-motion playback
Save key moments



Export of slow motion videos in **AVI format**



Video sharing (network/cloud)



Standard or rugged **tablet** available for the most demanding environments

Capture defects invisible to the naked eye!
Access breathtaking slow-motion footage

Record only what matters

TroublePad's loop recording enables continuous process monitoring and facilitates sequence analysis by keeping only the key moments.

The **Trigger box (optional)** allows you to **synchronize the TroublePad software** using signals from your own sensors and machines! You will be able to:



Start/stop your recordings



Keep a few seconds before and after the signal from your sensors



Analyze **key moments**
Trap **random defects**



TroublePad Trigger Box
4 inputs +/- 24V

Ease of use
is the key
word

TroublePad also allows **long-duration recordings**.

Optional recording media that allow you to monitor your processes over several hours (2 hours, 4 hours, 8 hours, or more upon request).



TroublePad therefore becomes your 'watchdog' and ensures you keep only what matters!

You will easily capture random phenomena on your production line.

TROUBLEPAD RANGE

A solution for every situation!

As easy to use as ever!

To meet all requirements, **TroublePad** comes in several versions:

TroublePad Classic

The reference solution on **production lines** for many years, **TroublePad Classic** is ideal for the most common applications.

Color camera **easy to position** on your **production lines** without environmental constraints.



TroublePad high-speed camera with lighting on its mounting arm



The **TroublePad** software is the same across all available versions and remains just as user-friendly as ever!

TroublePad Dual

TroublePad Dual is a variant of the **TroublePad Classic** featuring **two cameras for a 'multi-angle'** and comprehensive view of your processes!

TroublePad Dual is also available in **waterproof and motorized waterproof** versions.



High-speed recording from both cameras



Synchronized **slow motion videos** from both video streams

Dual video stream on a **14"** rugged tablet



TroublePad Dual System with its 14" rugged tablet

TroublePad Ultra

TroublePad Ultra is dedicated to the **fastest processes** where high **sensitivity and acquisition speed** are essential!

TroublePad Ultra enables **recording at 1000 frames per second at full resolution** and up to **5000 frames with lower resolution**.



High-speed recording



Selection, slow-motion playback and saving of key moments



Export of slow motion videos in **AVI format**



Video sharing (network/cloud)

Ultra high-speed camera on a 14" rugged tablet



TroublePad Ultra Camera with manual zoom lens



TroublePad Waterproof & TroublePad Motorized Waterproof

TroublePad Waterproof is the IP67/IP68 version of the **TroublePad Classic**, designed for **humid or dusty environments**, and available with or without a motorized lens.



High-speed recording in harsh environments



Selection, slow-motion playback and saving of key moments



Export of slow motion videos in **AVI format**



Video sharing (network/cloud)

Camera with maximum protection on a 14" rugged tablet



TroublePad Waterproof System with motorized lens and tablet

Technical specifications

	STA033 TroublePad Classic	STA043 TroublePad Dual	STA040 TroublePad Ultra	STA036 TroublePad Waterproof	STA038 TroublePad Motorized Waterproof
FPS at +/- 1200*1000 pixels	205	205	1000	205	205
FPS at +/- 800*600 pixels	520	520	1645	520	520
FPS at +/- 640*480 pixels	800	800	2000	800	800
FPS at +/- 400*300 pixels	1500	1500	3756	1500	1500
FPS at +/- 320*240 pixels	2500	2500	5000	2500	2500
Sensor	Color	Color	Monochrome	Color	Color
Sensitivity	★★	★★	★★★★	★★	★★
Interface	USB 3.0	USB 3.0	USB 3.1	USB 3.0	USB 3.0
Intuitive operation	★★★★	★★★★	★★★★	★★	★★★★
Moisture protection	-	IP65 tablet	IP65 tablet	IP67/68 (camera, lens, lighting) IP65 tablet	IP67/68 (camera, lens, lighting) IP65 tablet
Tablet	Classic	Rugged IP65 MIL-STD-810H	Rugged IP65 MIL-STD-810H	Rugged IP65 MIL-STD-810H	Rugged IP65 MIL-STD-810H
Standard memory	256 GB	1 TB	1 TB	500 GB	500 GB
Other memory capacity available	512 GB (internal) 1 TB/2 TB/4 TB/8 TB (external)	2 TB/4 TB/8 TB (internal)	2 TB/4 TB/8 TB (internal)	1 TB/2 TB/4 TB/8 TB (internal)	1 TB/2 TB/4 TB/8 TB (internal)
Lens	Manual	Manual (motorized optional)	Manual (motorized optional)	Manual	Motorized
Application areas	<ul style="list-style-type: none"> • Production lines • High-cycle-rate systems 	<ul style="list-style-type: none"> • Production lines • High-cycle-rate systems 	<ul style="list-style-type: none"> • Production lines • Production lines particularly filling systems • High-cycle-rate systems • Research • Drop tests • Microfluidics • Optical microscopy 	<ul style="list-style-type: none"> • Production lines • High-cycle-rate systems • Harsh production environments (Humidity, dust, etc.) 	<ul style="list-style-type: none"> • Production lines • High-cycle-rate systems • Harsh production environments (Humidity, dust, etc.)



TroublePad software common to all versions with the following main features:

- ✔ **Loop** recording
- ✔ **Long-duration** recording
- ✔ **Repetition** recording
- ✔ External trigger **Before/After**
- ✔ **Event** marking
- ✔ **Slow-motion** playback
- ✔ **JPEG** image stack **extraction**

High-speed camera for production line maintenance and high-cycle-rate machines



TroublePad high-speed camera on its mounting arm with tablet software

TroublePad	
Recommended speed	520 fps at 800*600 resolution
Other Speeds	205 fps at 1280*1024 resolution 330 fps at 1024*768 resolution 800 fps at 640*480 resolution 1500 fps at 400*300 resolution 2500 fps at 320*240 resolution
Lighting	LED lighting unit with mains power supply Also operates on batteries (optional) Power: 176 LEDs-1300 lux at 50 cm
Optics	Manual zoom lens 8–48 mm F1.0 With close-up lens set 1D, 2D, 4D, 10D
Mounting bracket	Variable friction magic arm for camera and lighting
Tablet	13" touchscreen, i7 Processor, 16 GB RAM, 256 GB SSD (512 GB optional) With protective case and shoulder strap
Carrying case	Carrying case with pre-formed foam Outer dimensions: 575*470*205 mm



TroublePad Camera with manual zoom lens



TroublePad Camera with motorized zoom lens controllable from the software



TroublePad Camera with wide-angle lens

TroublePad system recording capacity

Resolution	Max frame rate	Recording time
1280*1024	205 fps	≈ 33 minutes
800*600	520 fps	≈ 35 minutes
640*480	800 fps	≈ 36 minutes
400*300	1500 fps	≈ 40 minutes
320*240	2500 fps	≈ 40 minutes

*Data based on a 512 GB SSD; recording duration should be recalculated according to SSD size.

The ideal solution for your troubleshooting applications

◆ TroublePad Dual

TroublePad sees double!

TroublePad Dual ensures you never miss anything during all your video captures

The best of TroublePad with 2 cameras

Some situations need to be analyzed from different viewpoints; **TroublePad Dual** is the solution for filming your production line or machine from every angle!



TroublePad Dual System with its 14" rugged tablet

TroublePad Dual	
Recommended speed	520 fps at 800*600 resolution
Other Speeds	205 fps at 1280*1024 resolution 330 fps at 1024*768 resolution 800 fps at 640*480 resolution 1500 fps at 400*300 resolution 2500 fps at 320*240 resolution
Lighting	LED lighting unit with mains power supply Also operates on batteries (optional) Power: 176 LEDs-1300 lux at 50 cm
Optics	Manual zoom lens 8-48 mm F1.0 With close-up lens set 1D, 2D, 4D, 10D
Mounting bracket	Variable friction magic arm for camera and lighting
Tablet	Rugged IP65 MIL-STD-810H 14" touchscreen tablet, i7 Processor, 32 GB RAM, 1 TB SSD (optional 2 TB, 4 TB, 8 TB)
Carrying case	Carrying case with pre-formed foam Outer dimensions: 575*470*205 mm



Synchronized **playback of 2 camera** streams will offer you another view of the most **complex situations** and open up new fields of investigation!



The **DUAL version** is also available in a **waterproof version**

TroublePad Dual system recording capacity

Resolution	Max frame rate	Recording time
1280*1024	205 fps	≈ 33 minutes
800*600	520 fps	≈ 35 minutes
640*480	800 fps	≈ 36 minutes
400*300	1500 fps	≈ 40 minutes
320*240	2500 fps	≈ 40 minutes

**Data based on a 1 TB SSD, with 2 video streams; recording duration should be recalculated according to SSD size.*

TroublePad Dual ensures you never miss a detail in critical situations, and spend less time understanding difficulties related to movements too fast for the naked eye, guaranteed return on investment !

◆ TroublePad Waterproof

For wet or dusty environments

TroublePad Waterproof, the ideal solution for **harsh conditions!**

TroublePad Waterproof is not afraid of splashes!





TroublePad Waterproof
System with its 14" IP65 rugged tablet


TroublePad Waterproof IP67 waterproof housing for camera and 14" IP65 tablet	
Recommended speed	520 fps at 800*600 resolution
Other Speeds	205 fps at 1280*1024 resolution 330 fps at 1024*768 resolution 800 fps at 640*480 resolution 1500 fps at 400*300 resolution 2500 fps at 320*240 resolution
Lighting	IP68 LED lighting system (mains powered) Power: 72 Watts
Optics STA036	High-resolution lens 8 mm F1.4
Optics STA038	High-resolution motorized lens 12-36 mm F2.6 Controllable directly from the TroublePad interface. USB connector with 5-meter extension
Mounting bracket	Variable friction magic arm for camera and lighting
Tablet	Rugged IP65 MIL-STD-810H 14" touchscreen tablet, 17 Processor, 32 GB RAM, 500 GB SSD (optional 1 TB, 2 TB, 4 TB, 8 TB)
Carrying case	Carrying case with pre-formed foam / specific for the waterproof version Outer dimensions: 575*470*205 mm

Placing the camera as close to the action as possible sometimes requires working in a **hostile environment** and therefore having the **right protection for the equipment!**

When it is necessary to position TroublePad in situations where splash risks are present or simply in a dusty environment, **TroublePad Waterproof** will ensure you obtain slow-motion images in the worst conditions.

 The TroublePad camera and its 8 mm lens are placed in an **IP67 waterproof housing**

 The supplied **tablet** is **rugged and IP65 waterproof**

 The **lighting** is adapted to humidity and dust conditions

TroublePad Waterproof system recording capacity

Resolution	Max frame rate	Recording time
1280*1024	205 fps	≈ 33 minutes
800*600	520 fps	≈ 35 minutes
640*480	800 fps	≈ 36 minutes
400*300	1500 fps	≈ 40 minutes
320*240	2500 fps	≈ 40 minutes

**Data based on a 512 GB SSD; recording duration should be recalculated according to SSD size.*

✔ All your **settings** remain at your fingertips from your tablet.

✔ A **time and efficiency gain.**

◆ TroublePad Motorized Waterproof



In the **TroublePad Motorized Waterproof** version, the **camera and its motorized lens are placed in an IP67 waterproof housing**, guaranteeing slow-motion images in the worst conditions during long cycle times. Whatever the conditions, TroublePad Motorized Waterproof allows optical adjustments without opening the waterproof housing! **Within seconds, your problematic situations will be in your field of view!**



The supplied **tablet is rugged and IP65 waterproof**



The **lighting** is adapted to humidity and dust conditions



The **motorized lens** simplifies adjustments during your image captures!

◆ TroublePad Ultra



TroublePad Ultra Camera with manual zoom lens



TroublePad Ultra Camera with wide-angle lens



TroublePad Ultra Camera with motorized zoom lens

TroublePad Ultra – STA040

Recommended speed	1000 fps at 1246*1008 resolution
Other Speeds	1245 fps at 1246*800 resolution 1645 fps at 1246*608 resolution 2466 fps at 1246*400 resolution 3756 fps at 1246*256 resolution 5321 fps at 1246*176 resolution
Lighting	LED lighting unit with mains power supply Also operates on batteries (optional) Power: 176 LEDs-1300 lux at 50 cm
Optics	High-resolution zoom lens 12–36 mm for 1" camera F1.4
Mounting bracket	Variable friction magic arm for camera and lighting
Tablet	Rugged IP65 MIL-STD-810H 14" touchscreen tablet, I7 Processor, 32 GB RAM, 1 TB SSD (2 TB, 4 TB, 8 TB optional)
Carrying case	Carrying case with pre-formed foam Outer dimensions: 575*470*205mm

This version of TroublePad, **TroublePad Ultra**, achieves an unmatched level of detail and precision with TroublePad: **1000 frames per second at full resolution**. It guarantees maximum detail in the most demanding applications (Very high-speed production lines, test laboratories, research, special machines, microfluidics...)

TroublePad Ultra system recording capacity

Resolution	Max frame rate	Recording time
1246*1008	1003 fps	≈ 52 minutes
1246*800	1258 fps	≈ 53 minutes
1246*608	1645 fps	≈ 53 minutes
1246*400	2466 fps	≈ 54 minutes
1246*256	3756 fps	≈ 55 minutes
1246*176	5321 fps	≈ 56 minutes

**Data based on a 1 TB SSD; recording duration should be recalculated according to SSD size.*



TroublePad Ultra comes with a rugged tablet



High-power lighting is recommended for the most demanding applications



A motorized lens can be fitted, making remote adjustments easier during your image captures!

TroublePad systems

STA033

TroublePad - High-speed imaging station for industrial maintenance

High-speed video acquisition, designed to analyze, diagnose and anticipate incidents on industrial production lines and equipment

The TroublePad carrying case includes:

- HD 1280*1024 color digital **high-speed camera**
 Speed at 1280*1024: 205 fps Speed at 640*480: 800 fps
 Speed at 800*600: 520 fps Speed at 400*300: 1500 fps 256 GB
- 13" touchscreen **tablet** with protective case, USB 3.0 / USB-C port
3-meter USB-C cable
- **Zoom lens 8-48 mm** F1.0 + 'Macro' close-up lenses (+1D, +2D, +4D, +10D)
- **LED lighting:** 176-LED panel - batteries (optional) or mains adapter
- **Articulated** camera mount with clamp. Designed for camera and lighting
- **TroublePad video recording software. Intuitive and easy-to-use interface**
 - ◊ Loop recording / Continuous recording / Successive recordings
 - ◊ Shooting parameter management: Speed, Resolution, ROI, Exposure time, Gain, Gamma
 - ◊ Video playback and management
 - ◊ Clipping key moments from sequences
 - ◊ Sequence export in AVI format / JPEG image stack export
 - ◊ Trigger box configuration



STA036

TroublePad - High-speed imaging station for industrial maintenance Waterproof version (Camera and lighting IP67 - Tablet IP65)

High-speed video acquisition, designed to analyze, diagnose and anticipate incidents on industrial production lines and equipment

The TroublePad carrying case includes:

- HD 1280*1024 color digital **high-speed camera**
 Speed at 1280*1024: 205 fps Speed at 640*480: 800 fps
 Speed at 800*600: 520 fps Speed at 400*300: 1500 fps
- **IP67 waterproof housing for camera and fixed focal length lens**
- Rugged 14" IP65 MIL-STD-810H **touchscreen tablet**, 500 GB, USB 3.0 cable / 5 meters
- **Fixed focal** length lens 8 mm
- **IP68 LED lighting** (mains powered)
- **Articulated** camera mount with clamp. Designed for camera and lighting
- **TroublePad video recording software. Intuitive and easy-to-use interface**
 - ◊ Loop recording / Continuous recording / Successive recordings
 - ◊ Shooting parameter management: Speed, Resolution, ROI, Exposure time, Gain, Gamma
 - ◊ Video playback and management
 - ◊ Clipping key moments from sequences
 - ◊ Sequence export in AVI format / JPEG image stack export
 - ◊ Trigger box configuration



STA038

TroublePad - High-speed imaging station for industrial maintenance. Motorized waterproof version (Camera, motorized lens and lighting IP67 - Tablet IP65)

High-speed video acquisition, designed to analyze, diagnose and anticipate incidents on industrial production lines and equipment

The TroublePad carrying case includes:

- HD 1280*1024 color digital **high-speed camera**
 Speed at 1280*1024: 205 fps Speed at 640*480: 800 fps
 Speed at 800*600: 520 fps Speed at 400*300: 1500 fps
- **IP67 'XL' waterproof housing for camera and motorized lens**
- Rugged 14" IP65 MIL-STD-810H **touchscreen tablet**, 500 GB, USB 3.0 cable / 5 meters
- High-resolution **motorized zoom lens 12-36 mm** F2.6, controllable from the TroublePad interface
- **IP68 LED lighting** (mains powered)
- **Articulated** camera mount with clamp. Designed for camera and lighting
- **TroublePad video recording software. Intuitive and easy-to-use interface**
 - ◊ Loop recording / Continuous recording / Successive recordings
 - ◊ Shooting parameter management: Speed, Resolution, ROI, Exposure time, Gain, Gamma
 - ◊ Video playback and management
 - ◊ Clipping key moments from sequences
 - ◊ Sequence export in AVI format / JPEG image stack export
 - ◊ Trigger box configuration



TroublePad Ultra – High-speed imaging station for the most demanding applications

High-speed video acquisition, designed to analyze, diagnose and anticipate incidents on industrial production lines and equipment

The TroublePad carrying case includes:

- **HD 1246*1008 monochrome digital high-speed camera**
 - Speed at 1246*1008: 1000 fps Speed at 1246*400: 2466 fps
 - Speed at 1246*800: 1246 fps Speed at 1246*256: 3756 fps
 - Speed at 1246*608: 1645 fps Speed at 1246*176: 5000 fps
 - Speed at 1246*500: 2000 fps
- **Rugged 14" IP65 MIL-STD-810H touchscreen tablet, 1 TB, USB-C cable / 3 meters**
- **Zoom lens 12-36 mm F1.4**
- **LED lighting:** 176-LED panel – batteries (optional) or mains adapter
- **Articulated camera mount with clamp.** Designed for camera and lighting
- **TroublePad video recording software. Intuitive and easy-to-use interface**
 - ◊ Loop recording / Continuous recording / Successive recordings
 - ◊ Shooting parameter management: Speed, Resolution, Exposure time, Gamma
 - ◊ Video playback and management
 - ◊ Clipping key moments from sequences
 - ◊ Sequence export in AVI format / JPEG image stack export
 - ◊ Trigger box configuration



TroublePad DUAL – High-speed imaging station for industrial maintenance

High-speed video acquisition, designed to analyze, diagnose and anticipate incidents on industrial production lines and equipment

The 2 TroublePad carrying cases include:



- **2x HD 1280*1024 color digital high-speed cameras**
 - Speed at 1280*1024: 205 fps Speed at 640*480: 800 fps
 - Speed at 800*600: 520 fps Speed at 400*300: 1500 fps
- **1x Rugged 14" IP65 MIL-STD-810H touchscreen tablet, 1 TB, 2x USB 3.0 cables / 3 meters**
- **2x Zoom lenses 8-48mm F1.0 + 'Macro' close-up lenses (+1D, +2D, +4D, +10D)**
- **2x LED lighting:** 176-LED panel – batteries (optional) or mains adapter
- **2x Articulated camera mounts with clamps.** Designed for camera and lighting
- **TroublePad video recording software. Intuitive and easy-to-use interface**
 - ◊ Loop recording / Continuous recording / Successive recordings
 - ◊ Shooting parameter management: Speed, Resolution, ROI, Exposure time, Gain, Gamma
 - ◊ Video playback and management
 - ◊ Clipping key moments from sequences
 - ◊ Sequence export in AVI format / JPEG image stack export
 - ◊ Trigger box configuration



Available options and compatibility


	References	Descriptions	Photos	STA033 CLASS	STA036 WP	STA038 WP MOTO	STA040 ULTRA	STA043 DUAL
Lighting options	ECLQT	High-power LED lighting QX 12000 Lumens Supplied with mains power, 5-meter cable and filter lenses - 25°x 5° - 40°x40° - 60°x60° - 30°x 5° - 60°x5° Adaptable high-power lighting solution: possibility to use multiple lights in synchronized or stroboscopic mode, contact us. Waterproof housing available as option (ref. WPEQT)		✓	✓	✓	✓	✓
	WPEQT	IP66 waterproof housing for QX lighting. This housing replaces the original lighting enclosure, making it waterproof. Requires purchase of reference ECLQT		✓	✓	✓	✓	✓
	ECL020	Additional LED lighting for TroublePad station 176 LEDs (~1300 lux at 50 cm) - Battery or mains via AC/DC NON WATERPROOF lighting		●	✗	✗	●	●
	KIT005	Battery kit for TroublePad Station lighting Includes: 2 batteries + 1 dual charger		✓	✗	✗	✓	✓
	TOR001	High-power portable 'flashlight' lamp (max 2300 lumens, long range) sturdy and practical for precise targeting or as a complement to TroublePad lighting		✓	✓	✓	✓	✓
Trigger options	BOI024	Trigger Box +/- 24 Volts for TroublePad station (*requires USB hub)		✓	✓	✓	✓	✓
	DEC001	Wired trigger for TroublePad Trigger box (*requires ref. BOI024)		✓	✓	✓	✓	✓
	HUB001	USB 3.0 Hub for TroublePad station		✓	✓	✓	✓	✓
	DEC002	HID radio trigger for TroublePad station (includes USB receiver and 1-button trigger) range 230 meters		✓	✓	✓	✓	✓
Camera and lighting mounting options	BRA004	Small 15 cm adjustable arm with support clamp for camera or lighting		✓	✓	✓	✓	✓
	BAS002	Magnetic base for TroublePad station		✓	✓	✓	✓	✓
	BRA002	Magic arm for TroublePad station including magic arm, mounting clamp and support		●	●	●	●	●
	MA0003	Clamp for TroublePad station		✓	✓	✓	✓	✓
	PIE001	Photo tripod for TroublePad station		✓	✓	✓	✓	✓
	VEN001	Suction cup mount for TroublePad system		✓	✓	✓	✓	✓
	BRA003	Set of 2 clamps for quick and compact mounting of TroublePad camera or LED lighting Also useful for supplementary lighting in addition to the lighting supplied with TroublePad		✓	✓	✓	✓	✓

● Compatible reference included in the indicated carrying case ✗ Not compatible ✓ Compatible

	References	Descriptions	Photos	STA033 CLASS	STA036 WP	STA038 WP MOTO	STA040 ULTRA	STA043 DUAL
Tablet case mount	COQ004	Reinforced waterproof protective case for TroublePad tablet IP68 waterproof rating and military-grade shock certification (MIL-STD-810H) Security slot Supplied with shoulder strap		✓	✗	✗	✗	✗
	BRA005	Support arm for placing the tablet on a stand or handle This arm requires the use of a case with retaining nut (case ref. COQ004)		✓	✗	✗	✗	✗
	BRA006	Support arm for placing the tablet on a stand or handle This arm requires the use of a case with retaining nut (case ref. COQ004)		✓	✗	✗	✗	✗
Tablet options	TAB022	Upgrade to 512 GB tablet		✓	✗	✗	✗	✗
	TAB024	Upgrade to Rugged 14" IP65 MIL-STD-810H Tablet		✓	●	●	●	●
Cable options	CAM032	5-meter cable for TroublePad station		✓	●	●	✗	✓
	EXTUSB 3.0 USB 3.0_20M USB 3.0_30M USB 3.0_50M	Hybrid USB 3.0 cable 10 meters Hybrid USB 3.0 cable 20 meters Hybrid USB 3.0 cable 30 meters Hybrid USB 3.0 cable 50 meters		✓	✓	✓	✗	✓
EXTERNAL SSD Storage	TP2T TP4T TP8T	External recording device for TroublePad station including: Compact cooled external housing 100 mm*40 mm*25 mm, USB 3.0/USB-C connector • TP2T: ~2 hours • TP4T: ~4 hours • TP8T: ~8 hours		✓	✗	✗	✗	✗
INTERNAL SSD Storage	TP2TI TP4TI TP8TI	Internal recording device for TroublePad station: • TP2TI: ~2 hours • TP4TI: ~4 hours • TP8TI: ~8 hours		✗	✓	✓	✓	✓
Different options	MLU001	USB protection dongle for TroublePad software		✓	✓	✓	✓	✓
	TRO003	Removable trolley for TroublePad station carrying case		✓	✓	✓	✓	✓
	TPFLYCASE	Flight case for TroublePad carrying case, for safe regular transport		✓	✓	✓	✓	✓

● Compatible reference included in the indicated carrying case ✗ Not compatible ✓ Compatible

	References	Descriptions	Photos	STA033 CLASS	STA036 WP	STA038 WP MOTO	STA040 ULTRA	STA043 DUAL
Lenses	GMZ848	Zoom lens 8–48mm for TroublePad station		●	✗	✗	✗	●
	M12VM412	Lens Varifocal 4.0–12.0 mm F1.4, 1/2" C-mount focal Megapixel		✓	✗	✗	✗	✓
	EX2001	Focal length doubler EX2-C: C-mount focal length doubler		✓	✓	✓	✓	✓
	RIC006	High-resolution Ricoh 6 mm lens		✓	✓	✗	✗	✓
	TAM08	High-resolution Tamron 8 mm lens		✓	●	✗	✗	✓
	TAM016	High-resolution Tamron 16 mm lens		✓	✓	✗	✗	✓
	OBJMOT1	High-resolution motorized lens 12–36 mm, aperture 2.6, controllable directly from the TroublePad interface USB connector with 3-meter extension		✓	✗	●	✗	✓
	OBJMOT2	High-resolution motorized lens 16–96 mm, aperture 2.6, controllable directly from the TroublePad interface USB connector with 3-meter extension		✓	✗	✗	✓	✓

Options specific to TroublePad Ultra								
Lenses and cables for TroublePad Ultra	CABLTPU_3	Active USB-C/USB-C 3-meter cable for TroublePad Ultra camera		✗	✗	✗	●	✗
	CABLTPU_5 CABLTPU_10	Active USB-C/USB-C 5-meter cable for TroublePad Ultra camera Active USB-C/USB-C 10-meter cable for TroublePad Ultra camera		✗	✗	✗	✓	✗
	12_36MM1	High-resolution zoom lens 12–36 mm for 1" camera F1.4		✗	✗	✗	●	✗
	8MM_1	8 mm lens for 1" camera F2.6		✗	✗	✗	✓	✗

● Compatible reference included in the indicated carrying case ✗ Not compatible ✓ Compatible

Our references



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