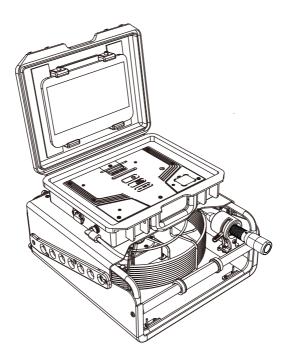


FOR TOUGH CUSTOMER

SINCE 1943



# PRODUCT MANUAL TRAVELER LITE

► Read this manual carefully before operating this system





- 1. Never use this device in an environment with explosive materials such as GAS, OIL, ETC.
- 2. Avoid using the device in extremely cold, hot or humid environment; otherwise it may damage the device. Do not drop or press hard on the device.
- 3. Avoid using the parts / components from other manufacturers to this system, which may damage the equipment due to the incompatibility.
- 4. Warranty invalidation if the device is disassembled by users or if there are any physical damages.
- 5. The system's PUSH CABLE made of fiberglass is very rigid. It CAN NOT be bent sharply or pushed too hard; otherwise it will be broken.

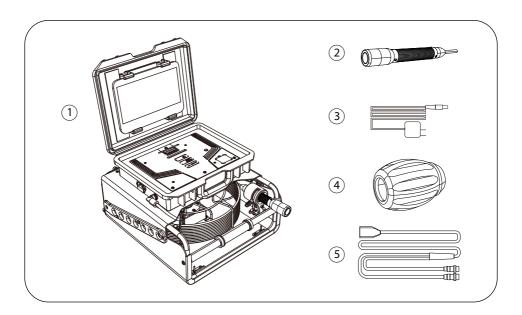


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#### **Product Matching List**



- (1) Traveler Lite unit
- (2) 23 mm camera head with/without self-leveling
- (3) AC power cord
- (4) Centering guide
- (5) Testing cord for diagnosis



#### **Specifications**

Item	Descriptive
Battery (In the case)	YBG 18650-2S3P, 7500mAh, 7.4V, 55.5Wh
Battery Life	up to 8 hours
Length of Cable	40M(130FT)
Camera Light Source	Built-in White LED lights (9PCS)
Camera Angle-of-View	Camera swing angle: 120°
Camera Image	Effective Pixel Array: 976 (H) x 504(V)
System Operating Temperature	-20°C to 55°C

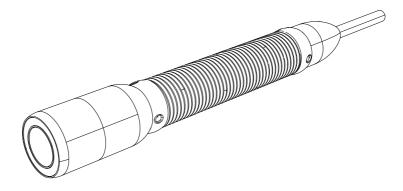
#### **Application**

- 1. PIPE INSPECTION
- 2. WASTE WATER SYSTEM INSPECTION
- 3. CABLE DUCTING SYSTEM INSPECTION
- 4. VENTILATION SYSTEM INSPECTION

#### **WARNING:**

Draining the battery completely will reduce the battery capacity.

# 23mm Camera Head (with/without self-leveling)



#### Working environment:

1. Temperature:  $-30^{\circ}$ C  $\sim +70^{\circ}$ C

Technical specifications:

(1) Power input: DC 9~13V, 13W (max)

(2) Camera module:

1) Image sensor: 1/3 inch CMOS

2) Effective pixel array: 960(H)x480(V)

3) White Balance: Automatic

4) Gain Control: Automatic

5) Signal-to-noise ratio: > 52dB(AGC OFF)

6) Video output: 1.0Vp-p/75R

7) Input voltage: DC3.3-5V

8) Current consumption: 110mA

10) Frame rate: 30FPS/25FPS

#### (3) Light Source:

1) LED quantity: 9PCS

2) Luminous flux: 200LM

3) LED current: 0~200mA

4) Lamp cup angle: 120°

#### External interface

CAM: Pins 1 to 4 are connected to

VIDEO, GND, +12V, LED

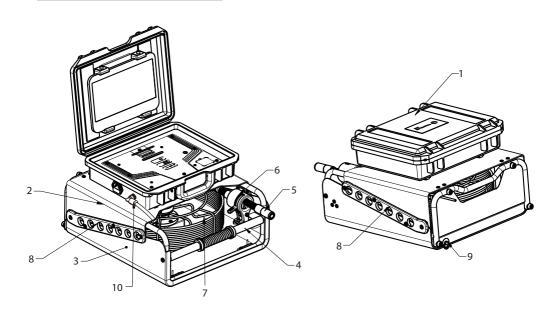
#### **WARNING:**

Continuously using the camera head with the maximum LED intensity may reduce LED life.



#### **Parts & Accessories**

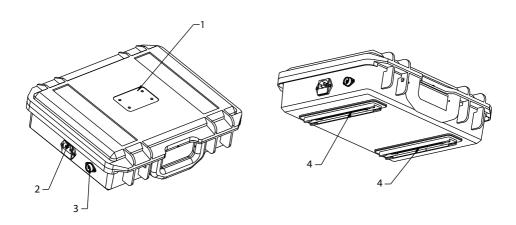
## Traveler Lite



Item	Part Number	Description	Qty.
1	64070014	Control box,TL	1
2	64070024	Metal cover, upper body, TL	1
3	64070025	Metal cover, lower body, TL	1
4	64070012	Handle, TL	1
5	64070005 / 64070006	Camera head, 23mm, TL / Camera head, 23mm w/ SL, TL	1
6	64070007	Camera holder, TL	1
7	64070010	Cable reel w/ cable and slipring, TL	1
8	64070023	Cover bars, TL	1
9	64070021	Rubber plug, TL	1
10	64070027	Cable, control box to reel, TL	1

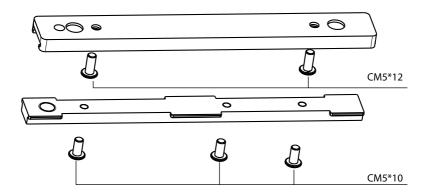


## Control Box(64070014)

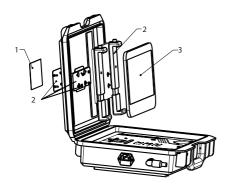


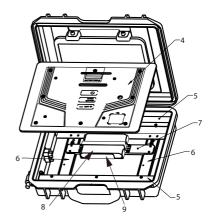
Item	Part Number	Description	Qty.
1	64070030	Decal, control box, TL	1
2	64070020	AC receptacle, TL	1
3	64070029	Aviation connector, control box, TL	1
4	64070034	Rail assembly, control box, TL	2

## Rail assembly, control box(64070034)



# Control Box(inside)

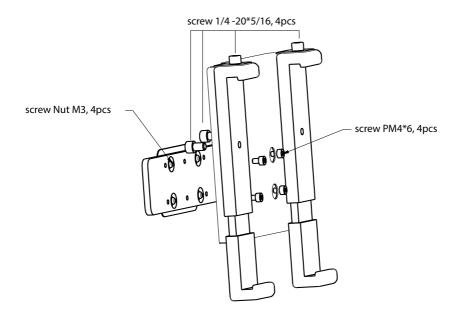




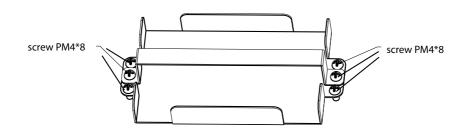
Item	Part Number	Description	Qty.
1	64070030	Decal, control box, TL	1
2	64070033	Tablet holder, TL	1
3	64070032	Spartan iPad with tough case	1
4	64070015	Control panel assembly w/ PCBA, TL	1
5	64070016	Control panel stand, TL	2
6	64070018	Vertical bar, control box, TL	2
7	64070019	horizontal bar, control box, TL	1
8	64050035	Battery, Traveler, 6-cell	1
9	64070017	Battery holder, TL	1



### Tablet holder,TL(64070033)

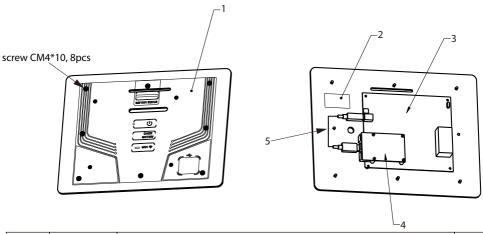


### Battery holder, TL(64070017)



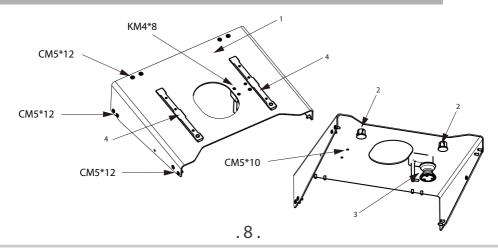


# Control Panel Assembly with PCBA(64070015)



Item	Part Number	Description	Qty.
1	64070003	Control panel assembly, TL	1
2	64070004	Wi-Fi Antenna, TL	1
3	64070001	Interface board, TL	1
4	64070002	Video processing card, TL	1
5	64060036	Cable, USB A to USB B, 100MM	1

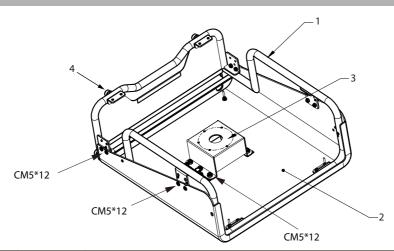
### Upper Body Cover Assembly(64070024)





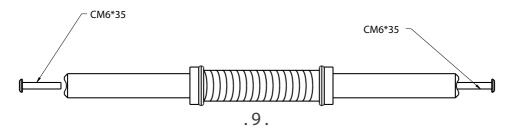
Item	Part Number	Description	Qty.
1	64070024	Metal cover, upper body, TL	1
2	64070031	Locking knob, control box, TL	2
3	64070011	Cable guide, TL	1
4	64070034	Rail assembly, control box, TL	2

### Lower Body Cover Assembly(64070025)

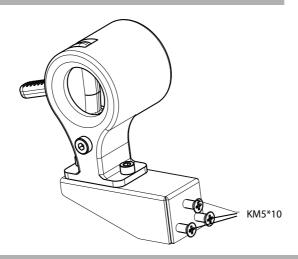


Item	Part Number	Description	Qty.
1	64070026	Tubular frame, TL	1
2	64070025	Metal cover, lower body, TL	1
3	64070013	Cable reel stand, TL	1
4	64070022	Foot, TL	4

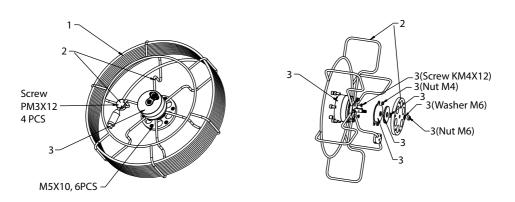
## Handle TL(64070012)



### Camera Holder TL(64070007)

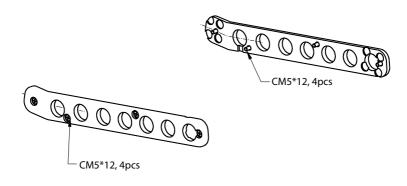


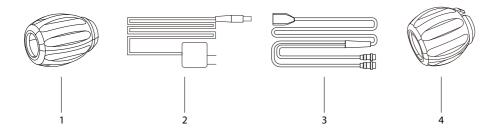
# Cable reel w/cable and splipring, TL(64070010)



Item	Part Number	Description	Qty.
1	64070008	Pushrod, 6mm*130FT, TL	1
2	64070037	Cable reel assembly, TL	1
3	64070009	Slipring & encoder, TL	1

## Cover bars TL(64070023)





Item	Part Number	Description	Qty.
1	64070035	Centering guide, TL	1
2	64020010	AC power cord, 118" - Red	1
3	64070028	Test cord, TL	1
4	64070036	Centering guide, non SL, TL	1