

# Underwater Camera (Fishing rod type.)

<http://miruzoukun.com/>

Uminaka mirouzou kun was  
adopted by OSAKA area  
creation fund.

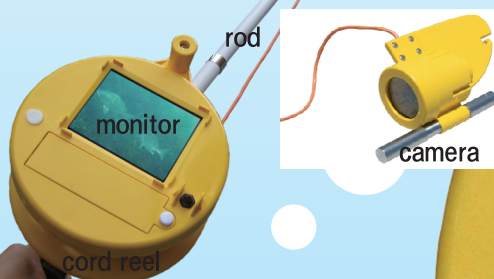
OSAKA  
地域創造  
FUND  
Active Osaka Promotion Fund

**Step1: Set four LR6 batteris.**  
**Step2: Switch ON!**  
**Only in this, Easily look at the water.**

水中カメラ

うみなか みるぞう 君

UMINAKA MIRUZOU KUN



**Simple operation!**



**Yellow: UMINAKA MIRUZOU KUN**  
**Black : BLACK-S**

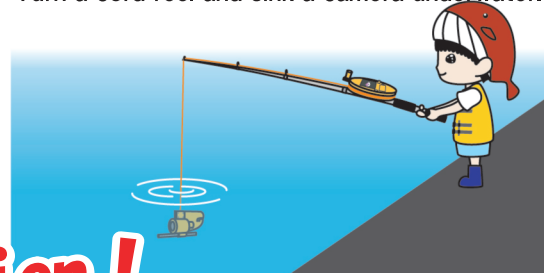
**BLACK-S**  
PRO

- ◆ 4inches monitor
- ◆ Video out
- ◆ Four LR6 batteris
- ◆ Line of 20m

**Most suitable  
for fishing!**

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Turn a cord reel and sink a camera underwater.



**Usable in the  
underwater investigation!**

うみなかみるぞう君

検索

View 360°

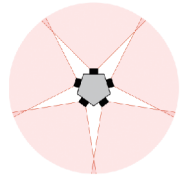
The investigation of the drowning accident  
and Ocean study !

# Underwater Camera MIRUZOU Pro.

## Excellent function of MIRUZOU Pro.

- A blind spot loses it with five cameras.  
Ability for investigation improves.

Image of the view

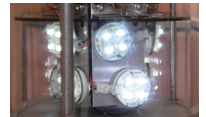


- An investigation is possible to  
depth of water 100m.  
(The length of line is 100m.)

- Ten LED lights of 1W are on.

- Recording is possible to  
a built-in HDD recording machine.

- Five monitors stick for five cameras  
There is the monitor for  
recording machine.



Monitor of each cameras



Monitor of  
the recording machine.  
(An external monitor can output it.)

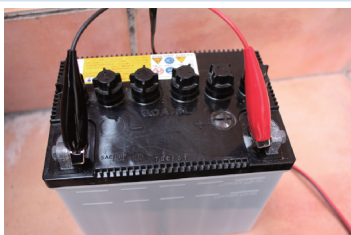
- Lightweight / Kompakt  
Carring around is possible alone.
- An external monitor can output it.
- Monitor box does by waterproofing.
- Cable is a poweeful cable enduring load of 100kg.

Knowledge unnecessary !

Skill unnecessary !

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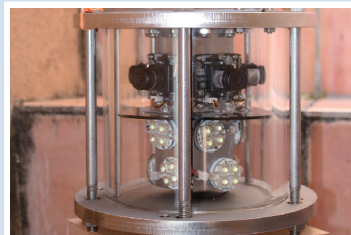
MIRUZOU Pro. can start investigation by 3 only step !



① Set it to 12V battery



② Swicht on



③ Drop a camera underwater



View 360°

For emergency, I recommend storage.



The investigation of the drowning accident  
and Ocean study !

View 180°

## Underwater Camera MIRUZOU Rescue 180

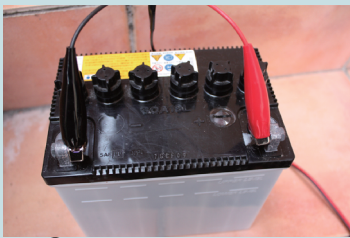


Knowledge unnecessary !  
Skill unnecessary !  
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### Excellent function of MIRUZOU Rescue 180

- Front 180 degrees looks with three cameras.
- An investigation is possible to depth of water 20m.  
(The length of line is 20m.)
- Three monitors stick for three cameras  
There is the monitor for recording machine.
- Recording is possible to a built-in HDD recording machine.
- An external monitor can output it.
- Monitor box does by waterproofing.
- Cable is a powerful cable enduring load of 100kg.

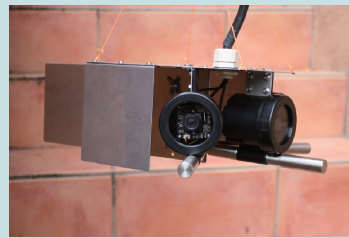
## MIRUZOU Rescue 180 can start investigation by 3 only step !



① Set it to 12V battery



② Swicht on



③ Drop a camera underwater



View 360°

## The scene which MIRUZOU can use.

- ◇ Underwater investigation by the natural disaster.
- ◇ Survey by missing person by the drowning accident.
- ◇ Crack investigation into building in the water.
- ◇ Investigation into marine resources.
- ◇ Fishery-related investigation. etc.

Police / Firefighting place / Navy / Fishery / Ocean study / Mrina engineering / Lifesaving / Drowning accident

For emergency, I recommend storage.

UMINAKA MIRUZOU KUN/BLACK-S Product Spec.

Monitor part	Size:205mm×180mm×110mm	Weight:660g	Cord length	20m
Camera part	Size:180mm× 60mm× 90mm	Weight:500g	Battery	Four LR6 battery

MIRUZOU Pro. Product Spec.

Power consumption	DC12V/4.3A Max
Monitor part	Size: 400×300×160mm Weight: About 6kg
Camera part	Size: 170×170×240mm Weight: About 5kg
Cord	100m Weight: About 12kg
Battery,Battery charger	Weight

【Recording machine】(MIRUZOU Pro.)

Picture Compression	H.264
Picture method	NTSC / PAL
OS	Linux2.6
Picture input/output	BNC8ch / VGA1ch&BNC2ch
Voice input/output	RCA 4ch / 2ch
Alam input/output	8input / 1output
Indication frame rate	NTSC: 240 fps
Reproduction resolution	704×480 / 704×240 / 352×240
Recording frame rate	240FPS Max
Rccording mode	Always/Schedule(Motion/Manual) /Sensor detection
HDD interfase	Internal organs HDD500GB
Network board	RJ45, 10M/100M
Protocol	TCP/IP,UDP,DHCP,DDNS,PPPoE support
Network function	IE or Cell phone
USB2.0	USB mouse、USB disk (Backup/Upgrading)
Reproduction	Local: 8ch Simultaneous reproduction Network: 8ch
Seach reproduction	Date/Time/Event Search
Reproduction mode	Reproduction/Throw/Forwarding/Top forwarding
Backup	USB memory、Backup by network way
PTZ control	Built-in RS485、PELCO-P&PELCO-D support
Alam mode	Motion detection/Video loss/HDDloss/HDD full/Email
Input voltage	DC12V/3A (adapter)
Consumption electricity	27W Max
Operation temprature	5℃~40℃
Size Weight	Size: W300×L185×H49 mm Weight: About 1.5Gg

【Camera】(Common spec.)

Model No	SCM2041
Type	BOARD TYPE COLOR CAMERA
Image Sensor	4.5mm Color CCD 270K
Effective Pixel	512(H) x 492(V)
Cell Size	7.20um(H) x 5.60um(V)
Horizontal Resolution	400TV
TV Type	NTSC
Sync. Type	Internal
Scanning System	2:1 Interface
Scanning Frequency(Horizontal)	15.735KHz
Scanning Frequency(Vertical)	59.94Hz
Video Output	Composite 1 (v-p-p) 75(ohm) unbalanced
Gamma Characteristic	0.45 typ.
Sensitivity	0.5Lux @F1.2
S/N Ratio	More Than 48dB
Gain Control	Automatic
Electronic Shutter	1/60~1/100,000 second
Power Supply	Regulated DC 5V (4.5 ~16V )
Power Consumption	200mA(at DC 5V)Max
Lens Mount	Fixed Lens Mount
Operation Temp	-10 ~ 50℃
Preservation Temp	-30 ~ 80℃
Dimension	32(W) X 32(H)
Weight	Approx.26g
Lens Options	Board F3.6(Standard).2.2mm,2.9mm,4.3mm,6mm,8mm,12mm) Pinhole Flat & Cone Pinhole : F3.7mm,4.3mm

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Please refer by an e-mail.

Mirouzou rescue 180 Product Spec.

Power consumption	DC12V/1.5A Max
Monitor part	Size: 400×300×160mm Weight: About 4.5kg
Camera Part	Size: 275×385×100mm Weight: About 2.1kg
Cord	20m Weight: About 2.5kg
Battery ,Battery charger,Weight	

【Recording machine】(MIRUZOU Rescue 180)

Picture method	NTSC / PAL
OS	RTOS
Picture input/output	BNC 4ch/ BNC 1ch
Voice input/output	RCA 2ch/ 1ch
Indication frame rate	NTSC: 120 fps
Reproduction resolution	NTSC: VGA(640x448)
Recording frame rate	NTSC: 60fps@HVGA(640×224)
Recording mode	Always/Schedule (Motion/Manual)
HDD interfase	Internal organs HDD 500GB
Moving body detection	YES
Automatic order forwarding	YES
USB2.0	USB memory (Backup)
Search reproduction	Date/Time/Event Search
Buzzer output	YES
Backup	USB memory
Wireless remote controller	Attached
Input voltage	DC 12V/3A (adapter)
Consumption electricity	10~15W (HDD not include)
Operation temperature	10℃~40℃
Size	W224×L208×H51.8mm
Weight	About 700g

【Monitor】(Common spec.)

DISPLAY SIZE	DIAGONAL DIGITAL 4"
NUMBER OF DOTS	320(RGB) X 240
ACTIVE AREA	82.08(W) X 61.56(H)
COLOR FILTER ARRAY	RGB VERTICAL STRIPE
INPUT SIGNAL	PAL / NTSC (AUTO)
SIGNAL INTERFACE	DIGITAL RGB + SPIINTERFACE
INPUT SIGNAL LEVEL	Composite .1.0Vp-p,75 Ohm
VIEWING ANGLE	TOP:65DEG BOTTOM:50DEG LEFT&LIGHT:65DEG
CONTRAST RATIO	500
LUMINANCE	350cd
OPERATING TEMPERATURE	-20 ~ +70℃
STORAGE TEMPERATURE	-30 ~ +70℃
INPUT VOLTAGE	DC5V ( 4.5V - 16V ). 300mA
BACKLIGHT TYPE	LED
OUTLINE DIMENSION	96(H) X 75.6(V) X 3.65(D)

Dealer
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