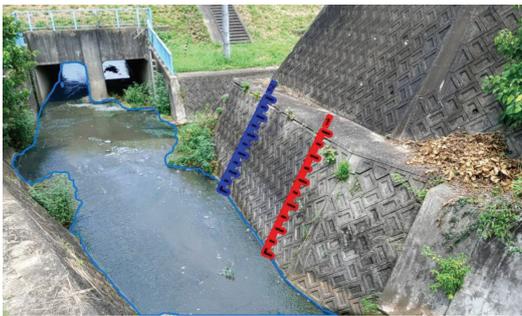


# Safety Guarded by AI



## Cloud-Based Disaster Monitoring Edge AI Camera System **eTA002**

An integrated river monitoring system enhanced with AI technology ensures a higher level of safety.

This river monitoring camera system uses Edge AI image analysis to detect water levels directly from captured images. It can obtain two types of data—still images and water levels—using the camera alone.

Powered by solar energy and LTE communication, the system is effective for river monitoring even in mountainous regions where power or communication infrastructure is unstable.

### Three Key Features of eTA002

#### Feature 01 > Accurate Detection Even in Nighttime Rainfall

With a minimum illumination of 0.005 lux—sensitive enough to capture images under starlight—and an automatic exposure adjustment function, the system ensures highly accurate water level detection even at night or in dark environments.



#### Feature 02 > Instant Flood Risk Awareness!

A virtual staff gauge (scale) with color-coded water levels is overlaid on the image, allowing users to instantly grasp flood risk and make rapid decisions during emergencies.

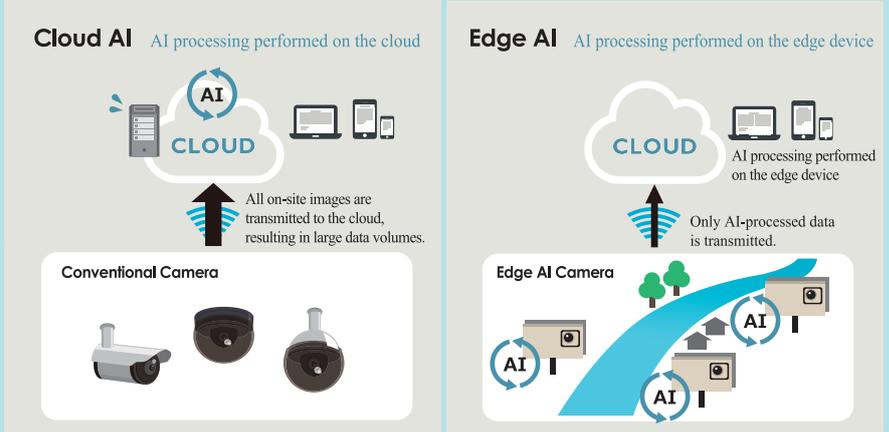


#### Feature 03 > Remote Adjustment via Cloud

Exposure and privacy masking settings can be adjusted remotely via the cloud, enabling fine-tuned configuration even after installation to match environmental changes.

# What is Edge AI

Edge AI refers to a system where AI capabilities are built directly into edge devices (the term “edge” means “the periphery” or “end”), enabling on-device analysis and decision-making. Processing data on the edge device allows real-time decision-making with minimal latency, reduces communication volume with the cloud, lowers communication costs, and enhances security by keeping raw data local instead of transmitting it to the cloud.



## Stand Guard Disaster Prevention Cloud System eT-Cloud

A web application for viewing and confirming images and data captured by Edge AI cameras. By consolidating images collected from multiple cameras, it supports accurate situational assessments.



### Main Features

#### Scheduling Function

Allows scheduled image capturing by specifying intervals.

#### Multi-Device Compatibility

The viewing interface automatically adjusts for optimal display on devices such as PCs and smartphones.

#### Registration of Standard Images for Normal Conditions

Standard images for each monitoring station can be registered, allowing instant comparison with the latest images.

#### User-Based Monitoring Station Access

Users can select with monitoring stations they can access.

#### Sensor-Triggered Capture and Email Notifications

Integrates with various sensors and sends notifications to registered email addresses.



## Main Specifications

### Camera Unit

Dimensions	W177 × H260 × D133 mm (excluding brackets and protrusions)
Anti-Condensation Measure	Equipped with a moisture-absorbing sheet and vent filter
Weight	Approx. 2.0 kg (excluding brackets) (TBD)
Effective Pixels	Approx. 2.13 million
Minimum Illumination	0.005 lx (color, electronic sensitivity boost)
Image Size	VGA (640×480), HD (1280×720), FHD (1920×1080)
Image Capture Interval	Standard 5 min (adjustable, minimum 2 min)

### (Water Level Observation Specifications)

Observation Interval	Standard 5 min (adjustable, minimum 2 min)
Transmission Interval	Standard 5 min (adjustable, minimum 2 min)
Measurement Range	Adjustable range of the virtual ruler
Minimum Readout Unit	1% of the ruler's full scale
Measurement Accuracy	±3% of the ruler's full scale

### Solar Power Unit

Maximum Output	27W or more
Dimensions	W538 × H350 × D35 mm (excluding brackets and protrusions)
Weight	Approx. 2.8 kg (excluding mounting bracket)

### Power Supply Box

Rated Voltage/Capacity	12V / 30Ah (capacity adjustable depending on installation conditions)
Dimensions	W300 × H350 × D250 mm
Weight	Approx. 20.1 kg (excluding brackets)

### Environmental Resistance

Operating Temperature	-20°C to +50°C (camera unit)
Humidity	20% to 90% RH (non-condensing)
Dustproof/Waterproof Rating	Equivalent to IP65 (JIS C 0920-2003)
Wind Resistance	Equivalent to wind speeds of 60 m/s (maximum instantaneous wind speed)
Snow Resistance	Equivalent to 2 m of snow accumulation

## Contact



- 6F, Sorimachi Shoji Building, 1-3-5 Taito, Taito-ku, Tokyo 110-0016, Japan
- +81-3-5246-4531
- eigyo-honsya@etrust.ne.jp
- <https://www.etrust.ne.jp/>