

# Roview 3

*CCTV Inspection Crawler*



# SUMMARY

01

## Areas of Application

- Pipes and Steam Lines
- Infrastructure Monitoring

02

## Discover the Roview 3

- Design and Conception
- Formats and Proportions
- Total Watertightness

03

## Control and Performance

- 4K Camera
- Advanced Telemetry
- Roview 3 Turret
- Operational Features

04

## Mounts and Accessories

- Range Extender
- Lifeline
- 400 mm Wheel
- Additional Screen

05

## Technical Information

- General Data Roview 3
- Integrated Camera
- Complementary Systems
- Waterproofing

# 01

# AREAS OF APPLICATION



## Pipes and Steam Lines

Pipelines and steam lines are vital components of many industrial plants – from the energy sector to process industries. They are exposed to significant mechanical and thermal stress, which can impact their long-term integrity.

With the Roview 3, even hard-to-reach sections can be inspected quickly, precisely, and safely. This minimizes downtime and enables targeted maintenance planning – ensuring greater efficiency and plant reliability.



# Structure Monitoring



Inspecting engineering structures such as bridges, footbridges, and tunnels is a real challenge for local authorities and companies.

Ensuring their regular maintenance and careful monitoring is essential, whether as part of preventive maintenance or following the detection of defects or incidents.

In this context, the Roview 3 stands out as a particularly effective solution.

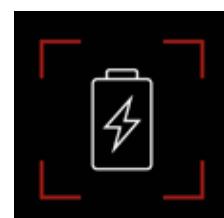
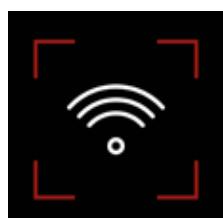
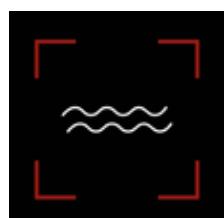
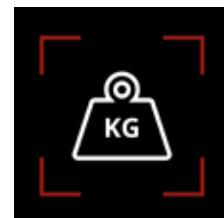
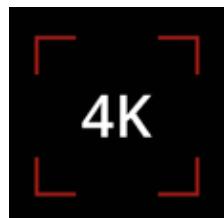
It offers the possibility of carrying out rapid and reliable inspections, providing a complete and detailed view of structures, while significantly reducing the time and risks associated with human intervention in the field.

02

# DISCOVER THE ROVIEW3



## Design and Conception



The Roview 3 has been completely redesigned to meet the demands of intensive use, combining ergonomics, modernity, and intuitiveness.

Every detail has been carefully considered to ensure optimal comfort, a compact size, and smooth operation.

The mechanical design of the turret has also been optimized to offer enhanced robustness and maximum resistance, even in the most demanding inspection environments.

# Formats and Proportions



The Roview 3 stands out thanks to its design, which makes it easy to transport and use in the field.

Its design allows it to adapt to a wide variety of configurations, while ensuring robustness and efficiency.

With a diameter of 350 mm, the Roview 3 can be used in networks with optimal stability and precision, offering a reliable solution for the most demanding inspections.

# Total Waterproofing

The Roview 3 is fully waterproof, from the hull to the turret, ensuring total protection against water, moisture, and dust.

Each component has been carefully designed and assembled to ensure optimal reliability, even in harsh environments or under extreme conditions.

This combination of total waterproofing and operational reliability makes the Roview 3 an ideal tool for inspecting sewer systems, industrial pipes, or any type of pipe exposed to water.



# 03

## CONTROL AND PERFORMANCE



## 4K Camera



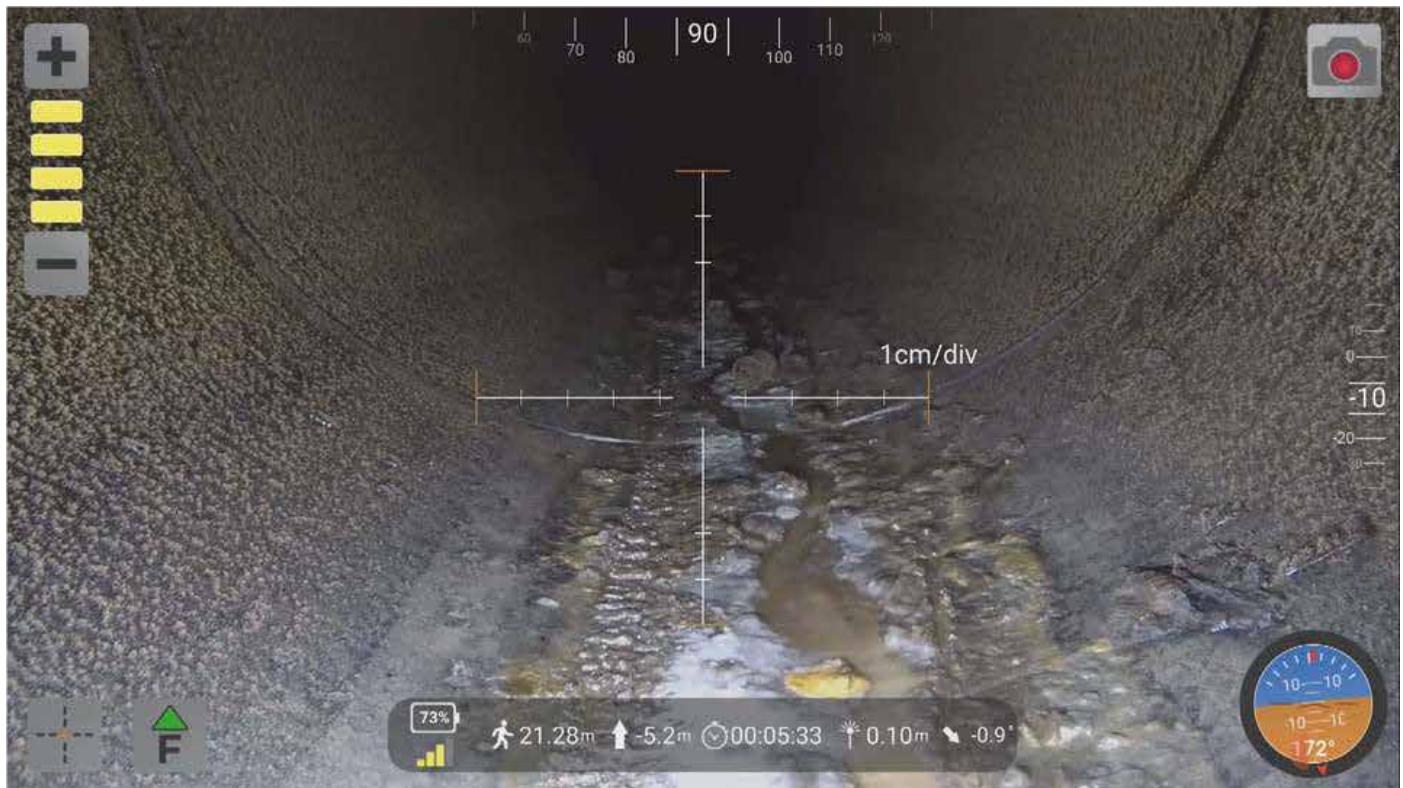
The Roview 3's 4K camera delivers outstanding image quality, with smooth 30 FPS recording that captures every detail with razor-sharp clarity.

Thanks to its autofocus and automatic ISO adjustment, it adapts perfectly to changes in light to ensure consistently clear and balanced shots.

With 12 MP resolution and direct recording to a micro SD card, the camera combines performance and practicality for an immersive and reliable viewing experience.



# Advanced Telemetry



## Defect Measurement

The Roview 3 telemetry system incorporates a reticle with a graduated scale, allowing real-time measurement of defect sizes directly from the video feed.

The telemetry information captured by the Roview 3 is used directly to generate inspection reports that comply with the NF EN 13508-2 standard. This compliance ensures that observations are standardized, facilitating the analysis, comparison, and archiving of inspection data.

## Travel Distance

The Roview 3 continuously records the distance traveled in the network, providing an exact location of detected faults and anomalies.

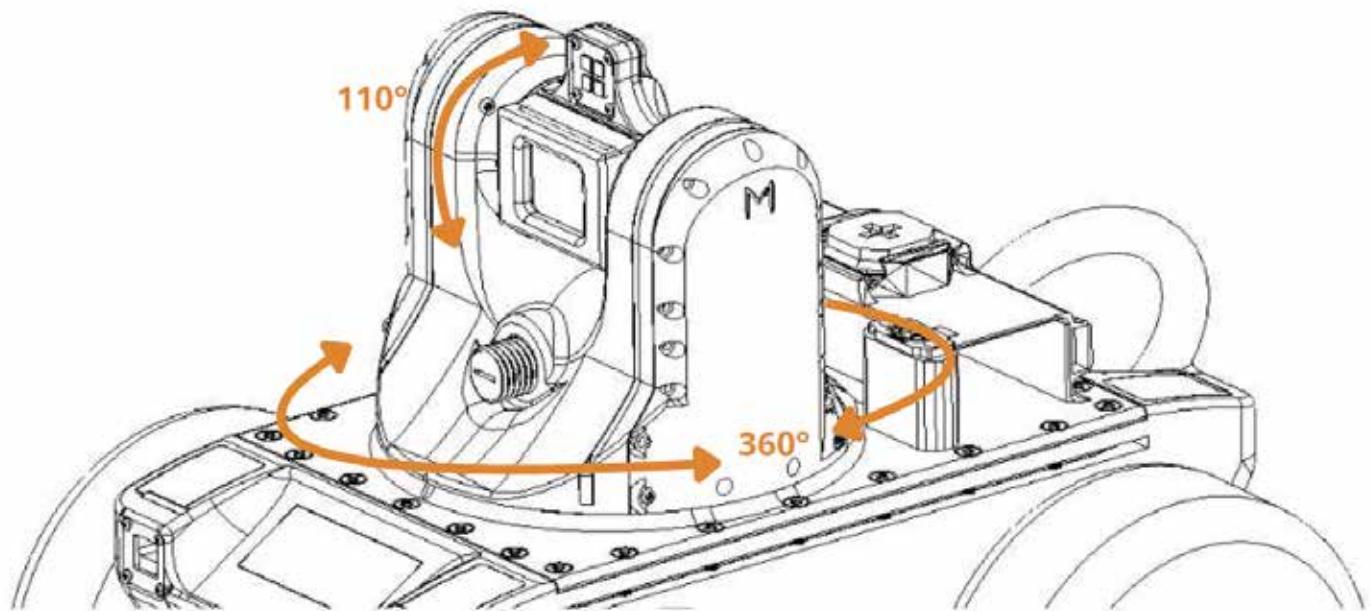
This feature allows for the generation of detailed, standards-compliant reports, while facilitating subsequent tracking and intervention.

# Roview 3 Turret

Completely redesigned, the Roview 3 turret combines mechanical robustness with precision movement.

Its reinforced design enables it to withstand the most severe conditions while ensuring perfectly smooth and reliable rotation.

Completely waterproof, it provides lasting protection for the camera and its components, ensuring optimal image quality and exceptional reliability, even in the most challenging environments.



With a single click, the commands are reversed and the turret automatically rotates 180°, allowing the Roview 3 to easily turn around and continue in the opposite direction, while maintaining perfectly consistent telemetry data.

# Operational Features

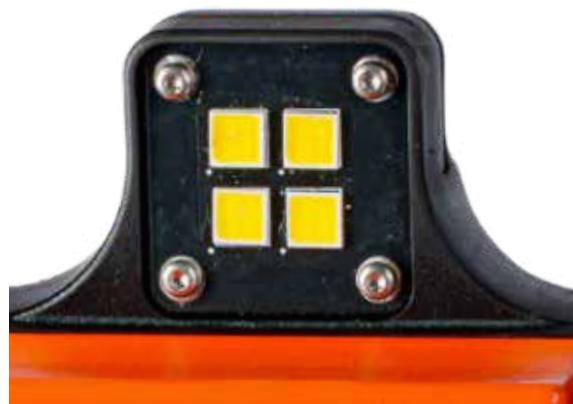
## Wireless Control

The Roview 3 operates entirely wirelessly, offering complete freedom of movement during inspections.

Its range, between 150 and 1,000 meters, ensures precise remote control, while the 1080P video feed provides clear and smooth real-time viewing on the radio.



## Lighting



The Roview 3 now features 5 LED panels providing wide, diffused and extremely powerful lighting.

Capable of delivering up to 16,000 lumens, ensuring optimal visibility even in the darkest conditions.

## Battery Life

Its high-performance battery provides over 2 hours of use with the LEDs on, ensuring powerful lighting in dark environments.

Without lighting, battery life can reach up to 8 hours, allowing you to carry out several consecutive missions without interruption.



# 04

## MOUNTS AND ACCESSORIES





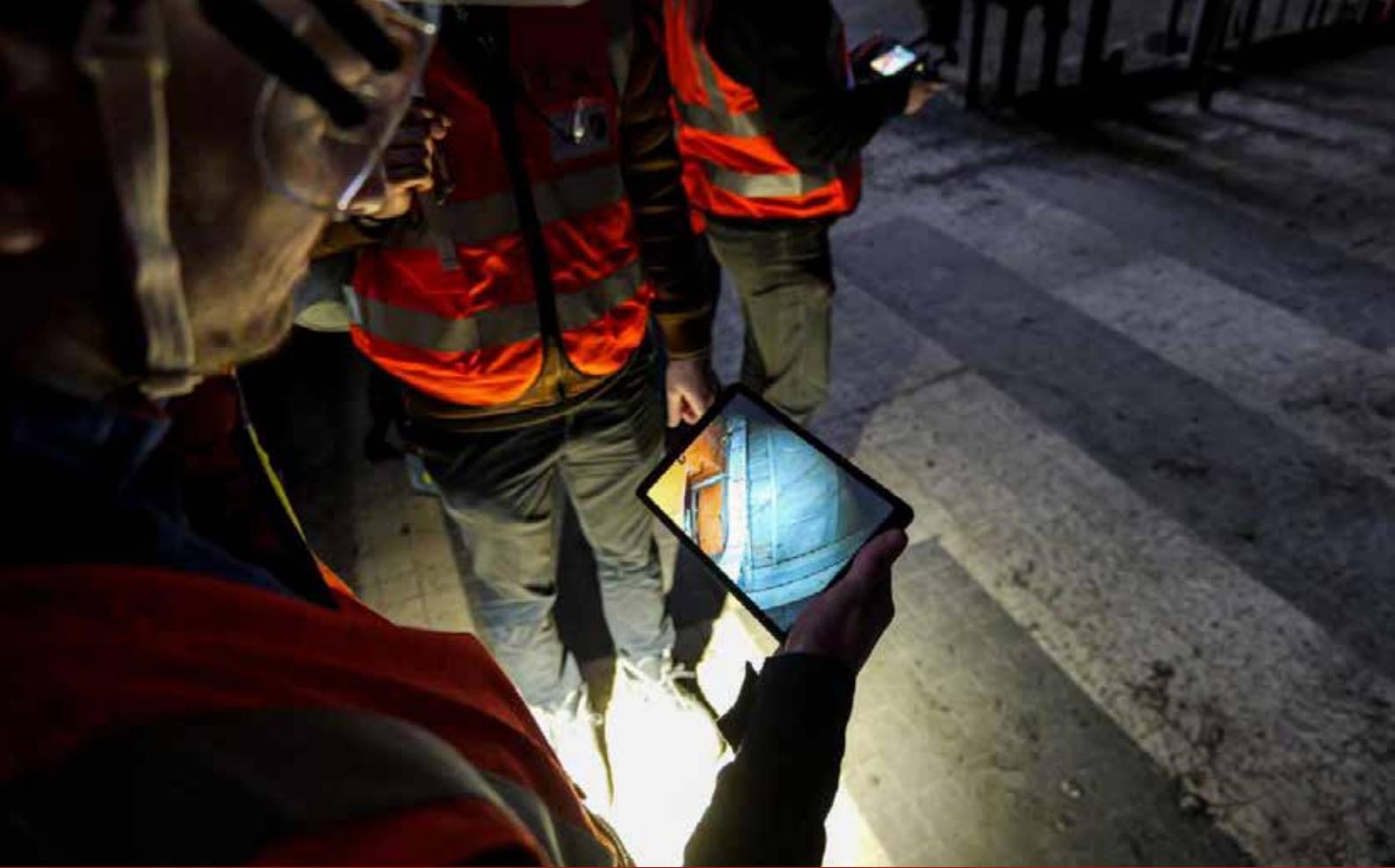
## Range Extender

The Range Extender offers optimal flexibility by allowing you to position the transmission and reception points in the most suitable location for your activity.

It significantly improves the system's range, even in the most demanding environments.

With this accessory, the Roview 3 can be used at depths of up to 10 metres, ensuring reliable and consistent performance.





## Additional Screen

Ensure control and coordination during your operations with the Roview 3's additional screen.

It allows the pilot to remain fully focused on the radio control, while a second operator monitors the real-time video feed for added vigilance.

This accessory is particularly useful in complex environments or during missions requiring simultaneous monitoring and optimal communication between pilot and observer.





## 400 mm Wheels

Optimise your operations with our 400 mm wheels, specially designed to facilitate access to 350 mm pipes.

Thanks to their robust and ergonomic design, they ensure smooth, stable and efficient navigation, even in the narrowest and most difficult-to-access environments.

This accessory improves manoeuvring precision while ensuring reliable performance in all your monitoring or inspection operations.





## Blades

Enhance your operations with our four blades specially designed for the Roview 3.

Designed to provide powerful and controlled propulsion in water-filled pipes, they ensure smooth, stable and precise navigation, even in the narrowest and most demanding environments.

Thanks to their robust and perfectly balanced design, these blades improve the manoeuvrability of your robot and ensure reliable performance during all your inspection and surveillance operations.





## Lifeline

Enhance the manoeuvrability and safety of your Roview 3 with our innovative new lifeline.

Designed for increased strength, quick installation and optimised guidance, it guarantees maximum stability, precision and safety.

Its robust and ergonomic design makes it an essential accessory for fully exploiting the potential of your Roview 3.



# 05

## TECHNICAL INFORMATION



# General Data Roviv 3

All the essential technical information about the Roviv 3 is gathered to give you a complete overview of its capabilities.

CONFIGURATION	Fixed steering - rotation by differential
ENGINE	4 motors - 100 rpm
AUTONOMY	Over 2 hours
WEIGHT	5.6 kg
DIMENSIONS	42.5 / 35 / 32cm L x I x H
MATERIALS	Résine SLA (shell) - Aluminium
OPERATING TEMPERATURES	-20°C to +40°C
SAFETY	Warning of overturning from 30°
FREQUENCIES	2400 to 2483 MHz
EMC OPERATING	2.4ghz 20dbm (CE)
TOTAL POWER	16 000 lumens
BAQTTERY TYPE	LIPO
CHARGE TIME	1 hour
VOLTAGE	14.8V (4S)
CAPACITIES	5000 mah

# Camera

The technical specification of the Roview3 camera are detailed here to highlight its main features.

SENSOR	4K Sony IMX 117 / 12MP
VIDEO FORMAT	MP4
PHOTO FORMAT	JPG
VIDEO RESOLUTION	3840/2160 - 30 fps
PHOTO RESOLUTION	3840/2160
VIDEO STREAMING	1920/1080 - 30 fps
FOV	110° diagonal / 90° horizontal
LENS	2.1 mm - focus
ISO	automatic management
FILE SAVING	Micro SD card
SUPPORTED SD CARDS	32 - 128 GB ( recommended capacities ) U3
SUPPORTED FORMATS	FAT 32

# Radio Control

This section the main technical of the Roview 3 radio control, allowing you to fully understand its features and performance

FREQUENCIES	2 400 to 2483 Mhz
STANDARD	CE / SRR / FCC / MIC
OPERATING STANDARDS	IN84 (CNPE - emissions <50mW)
EMC	2.4 GHz
RADIO LINK	Duplex
OUTDOOR RANGE	12 km (CE) / 20 km (FCC)
RANGE IN CONFINED SPACE	up to 1000 m
RADIO DIMENSIONS	5.46 - inch touchscreen
WEIGHT	520 g
OPERATING TEMPERATURE	-20°C to- +40°C
BATTERY	Lipo 4950 mAh / Recharge USB
RECEPTION SENSITIVITY	-120 dBm
ANTENNAS	1 Omnidirectional / 1 directional

# Roview 3 Waterproofing

The following information presents the essential elements relating to the water resistance of the Roview 3, providing a clear understanding of its level of protection and reliability in demanding conditions.

WATERPROOFING	Complete machine
CLEANING	High-pressure washing
PROTECTION INDEX WATER	Equivalent to IP66
SPRAY DIRECTION	In all directions





## CONTACT

**viZaar North**  
**Sales and Service Office**  
25361 Krempe  
Mobile: +49 171 5524094

**viZaar North Germany**  
**VT Service / Rental Service / Sales**  
29339 Wathlingen  
Mobile: +49 160 93777644

**viZaar NRW**  
**Sales and Service Office**  
46348 Raesfeld  
Mobile: +49 170 5703130

**viZaar industrial imaging AG**  
**VT Service / Rental Service / Sales /**  
**Training Center**  
Lupusstraße 17  
35789 Weilmünster / Germany  
Fon: +49 6475 91129-0  
Fax: +49 6475 91129-29  
xtra@vizaar.de  
www.vizaar-xtra.de

**viZaar industrial imaging AG**  
**Headquarter**  
Hechinger Straße 152  
72461 Albstadt / Germany  
Fon: +49 (0) 74 32 / 98 37 5-5  
Fax: +49 (0) 74 32 / 98 37 5-50  
Freecall 0800 3600371  
(within Germany)  
info@vizaar.com  
www.vizaar.de

**viZaar South**  
**Sales and Service Office**  
88161 Lindenberg im Allgäu  
Mobile: +49 172 6019 601

