# SEWER
## ROBOTICS

# "SEEING IS BELIEVING"

## C70 CAMERA NOZZLE

# C70
# CAMERA NOZZLE



Intruding sealing material

Surface damage - aggregate visible

Solid deposits - hard or compacted material e.g. concrete

2021-06-30 15:18:03
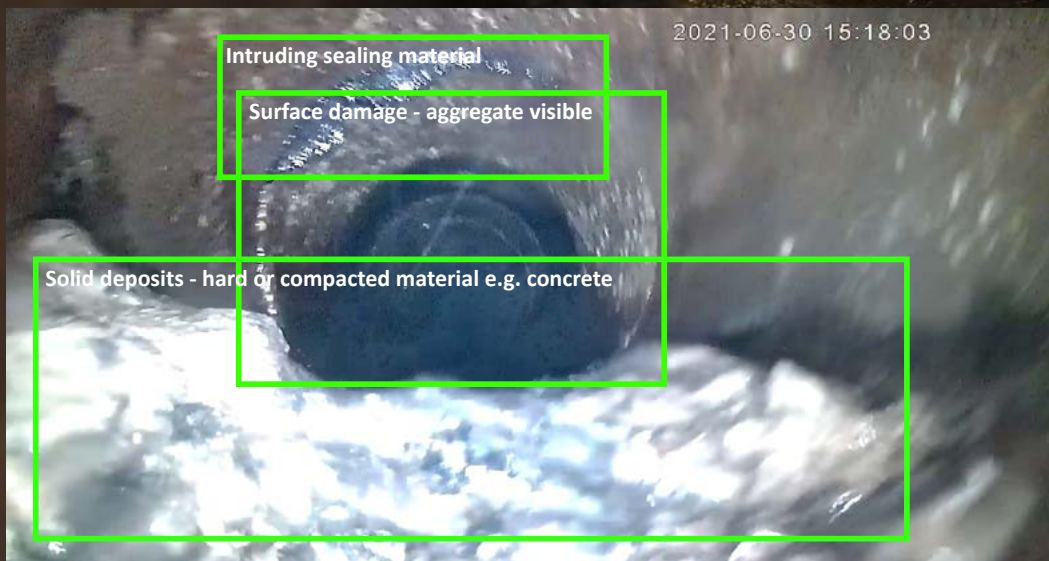
AI AUTOMATIC DETECTED DEFECTS

"COLLECT *VALUABLE INTELLIGENCE* AT LOW COSTS & MINIMUM EFFORT WHILE CLEANING"

## SUPERIOR VIDEO

The auto-upright, High-Definition camera is protected by stacked Sapphire lenses and records always from a perfect horizontal position.

## PERFECTLY HORIZONTAL VIDEO

Mechanical self-leveling keeps the camera at a perfect horizontal position without eliminating pixels.

## EXTREMELY DURABLE

The Stainless housing and stacked, Sapphire, lenses withstand impacts from rocks, concrete deposits and a good swing into the pipe.

## 10 HOURS RUNTIME

The Lithium-Ion battery pack is rapidly charged and lasts as long as a good 10 hour working day.
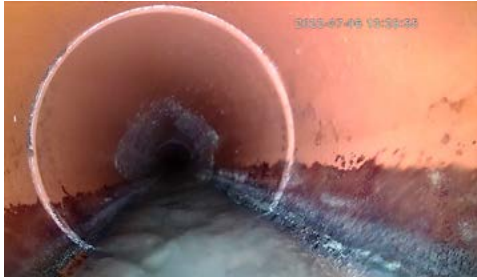
## AUTOMATIC RECORDING

A built-in high pressure switch activates 8 super bright LED's and automatically starts the recording without intterupting the cleaner's workflow.

## WIDE APPLICATION RANGE

Various easy exchangeable skids are available to keep the video nozzle at the right position inside 150 – 1000mm (6 – 40") pipelines.

## GREAT CLEANING CAPACITY

Great cleaning and debris transportation with 8x 55° & 4x 20° exchangeable Ceramic jets. (Other nozzle configurations available)
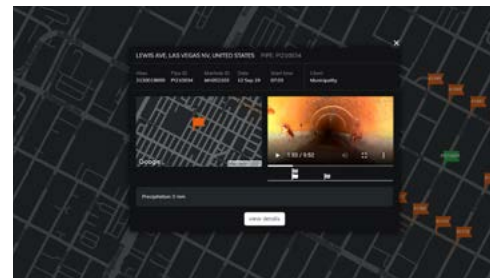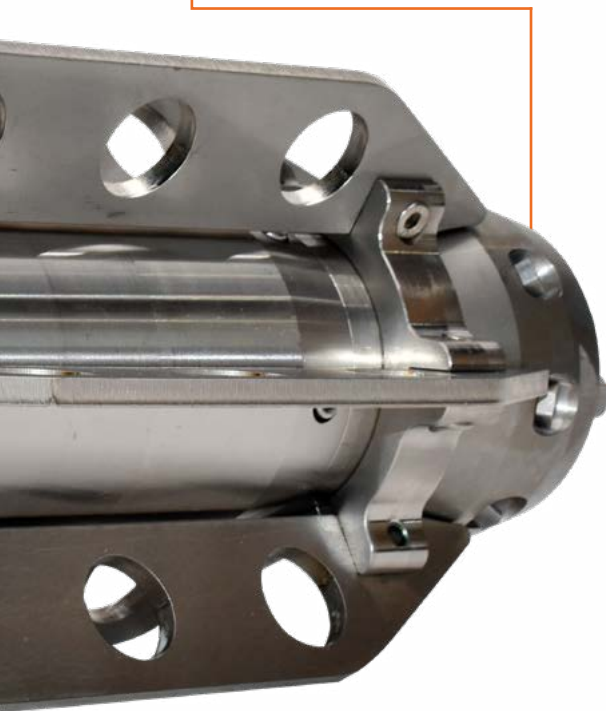


## FOR ANY TRUCK

The stand-alone C70 camera nozzle threads onto any jetting hose.

## NO BUTTONS NOR FLASH DRIVES

WIFI communication between nozzle and tablet for wireless operation and video downloading from the nozzle and uploading to the cloud.
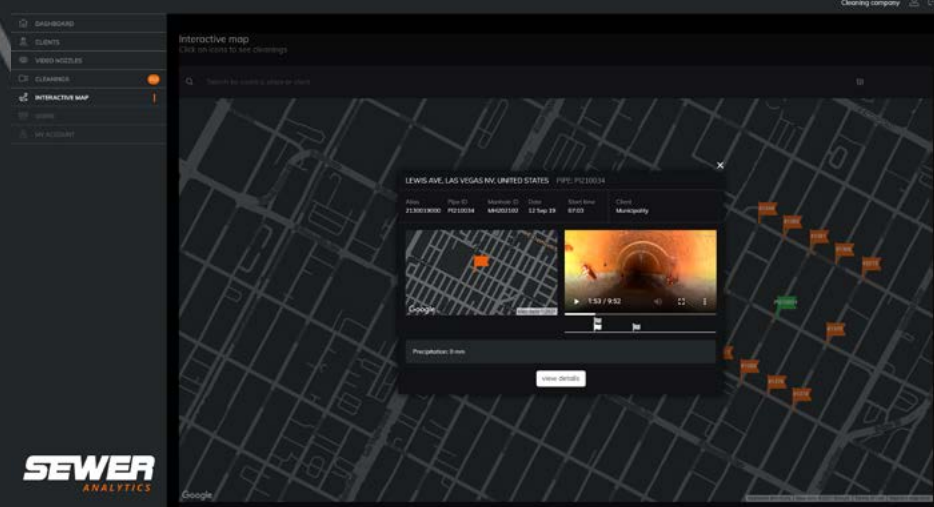


## SEWER ANALYTICS WEB CLOUD

Login to SewerAnalytics.com to review videos, add header information and observations, prioritize next actions and share cleaning reports with customers.
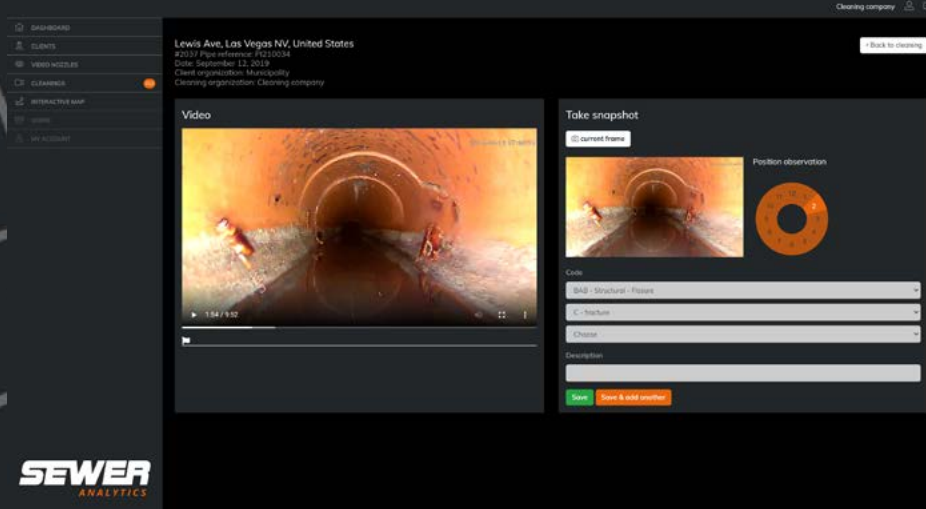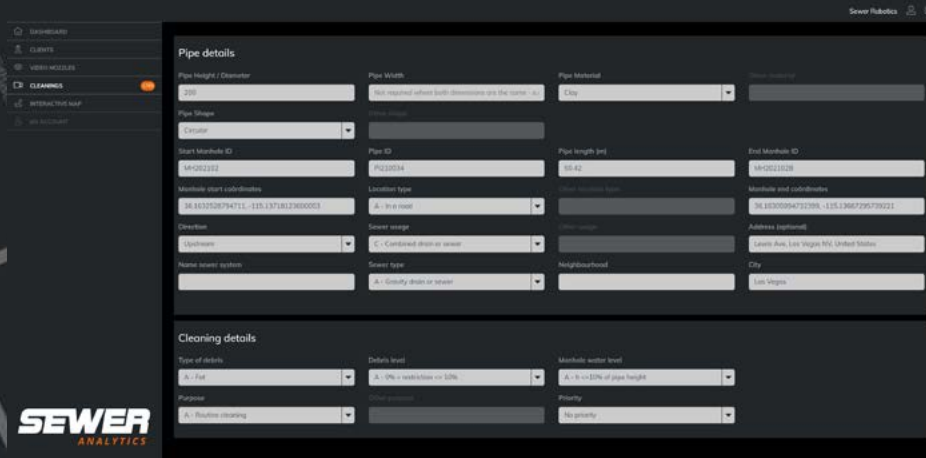
## AI AUTOMATIC DEFECT CODING

Reliable artificial intelligence software that automatically codes and classifies defects according international CCTV inspection standards.

INTERACTIVE MAP

ADD OBSERVATIONS

ADD HEADER INFO & PRIORITIZE

SCAN FOR DEMO
ACCOUNT

**#789**

**#777**

**#786**

**#776**

**#775**

**#774**

**#785**

**#560**

**#530**

Sewer Robotics

DASHBOARD
CLIENTS
VIDEO NOZZLES
CLEANINGS
INTERACTIVE MAP
ORDERS
MY ACCOUNT
MY ORDERS
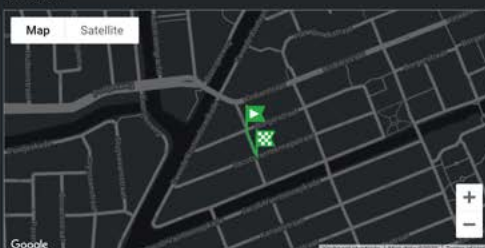
### Location

Map | Satellite

Google
Keyboard shortcuts | Map data ©2022 | Terms of Use

Click the marker above and click the location of the end point to add it. Click again, at the location of the starting point to change it.

Reset

### Video

2021-06-02 00:17:05

► 1:23 / 2:08

AI inspected | Add observation

### Observations (9)

| Time | Code | Classification | Description | Images |
|------|------|----------------|-------------|--------|
| ● 00:01:16 | BBFD | 5 | Infiltration, gushing (D) entering under pressure.. | |
| ● 00:01:16 | BBBB | 3 | Attached deposits, grease (B). | |
| ● 00:01:19 | BBFD | 5 | Infiltration, gushing (D) entering under pressure.. | |
| ● 00:01:19 | BBBB | 3* | Attached deposits, grease (B). | |

**SEWER** ANALYTICS

SEWER ANALYTICS WEB CLOUD

# "THE *FUTURE* STARTS TODAY"

With reliable artificial intelligence software that automatically analyses your cleaning videos by coding and classifying defects according international CCTV inspection standards.

Your analysed cleanings are conveniently organized and prioritized in Sewer Analytics.
Ready for decisions making.



AI AUTOMATIC DETECTED DEFECTS



AI AUTOMATIC DETECTED DEFECTS

"LOGIN TO *SEWER ANALYTICS* TO ACCESS CLEANINGS"

+ REVIEW VIDEOS
+ ADD HEADER INFO
+ ADD MANUAL OBSERVATIONS
+ AI AUTOMATIC INSPECTION
+ PRIORITIZE CLEANINGS
+ SHARE CLEANING INFO WITH
   CUSTOMERS

# C70 CLEANING WORKFLOW



The Sewer Robotics C70 video nozzle is compatible with any jetting truck and easily threaded on the jetting hose.

**The pipe segment is cleaned with the C70 camera nozzle**

**Based on the cleaning (what cleaning operator, sees, feels, smells and hears)**

**No anomaly suspected**

**Anomaly suspected**

**The video is watched to determine next actions**



The cleaning video is downloaded and watched for an immediate pipe status report and to determine the next actions (e.g. the pipe needs more cleaning, or a different solution is required).



Back at the depot, the cleaning videos are automatically uploaded to Sewer Analytics with date, time and GPS coordinates while the C70 and tablet are charging.

**AT THE END OF THE DAY**

**All videos are synchronized and uploaded to the Sewer Analytics cloud**
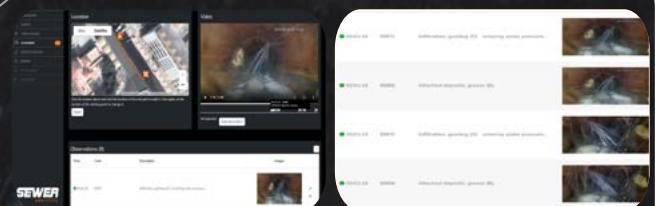
**The videos are watched or automatically inspected by AI**
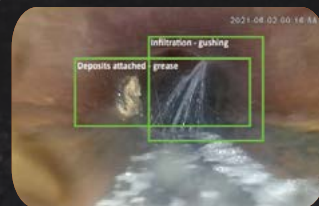


The cleaning videos are automatically inspected by AI and defects are coded and prioritized according international CCTV standards.
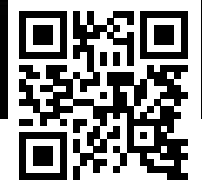
**THE NEXT MORNING**

**Coded and prioritized cleaning data is ready for making decisions**

# C70
# CAMERA NOZZLE

## C70 150 - 1000MM (6-40")

The durable C70 Camera nozzle easily threads onto any jetting hose to help cleaning crews and asset managers record High Definition, auto-upright, video at low-cost during pipe cleaning operations.

Once the pipe is cleaned, the video is downloaded with a single touch of a button and automatically uploaded to the Sewer Analytics web cloud, together with the date, time and GPS location of the cleanings.

SCAN FOR VIDEO

C70 SKIDS

SEWER ANALYTICS WEB CLOUD

## SPECIFICATIONS

| | |
|---|---|
| Scope of use | : 150 – 1000mm  (6-40") |
| Pressure | : 125 - 275bar (2000-4000psi) |
| | : Up to 3000bar (43,500psi) [1] |
| Flow | : 80 – 650 LPM (21-170GPM) |
| Hose connection | : ¾, 1 and 1¼" BSP & NPT |
| Video | : Self leveling, High-Definition, MP4 |
| Camera | : CMOS, 1980x1080 or 1280x720 |
| Internal storage | : 32 Gb |
| Cleaning | : 8x 55° & 4x 20° jets with Ceramic orifices |
| | : Other nozzles (optional) |
| Housing | : Durable, Stainless-steel |
| Protection lenses | : 2 Sapphire lenses, stacked |
| Lighting | : 7 intensity adjustable superbright LED's |
| Battery | : Lithium-Ion battery pack |
| | : 10+ hours battery runtime |
| | : 3 hours charge time |
| Weight | : 6,2kg (13,7 Lbs) [2] |
| Dimensions | : D90x295mm (D3.5x11.6") [2] |
| Tablet | : 8", Rugged, IP67 |
| | : Windows® operated |
| | : GPS receiver |

## FEATURES

- Pressure activated lighting
- Pressure activated recording
- Wireless operation & video downloading
- Great cleaning, thrust and debris removal

## SEWER ANALYTICS

- Password-protected access from any device
- Automatic cloud synchronization [3]
- Automatic registration of date, time and location
- Interactive map, observation coding, prioritizing and sharing functions
- FREE 500 GB Sewer Analytics cloud storage

## ACCESSORIES

- Jet inserts
- Hose adapters and swivels
- Nozzles for different cleaning applications
- Large diameter skid with auxiliary lighting
- Charging dock for C70 and tablet
- Inclination measurement
- Customized software integrations

1: For Industrial cleaning     2: Without skid     3: Internet connection required

# "VALUABLE INTELLIGENCE AT *LOW COSTS* & MINIMUM EFFORT."

## SEWER
### ROBOTICS

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