

VIPER[®]

by *envirobot*

Jet-powered, steerable
HD VIDEO NOZZLE
for many applications

VIPER - the rugged, professional tool for
cleaning and inspecting
branched pipes **in one run.**

Full HD
1080



VIPER® - THE TROUBLESHOOTER

With a range of up to 80 meters typical areas of application are drain & sewer cleaning, blockage removal, construction industry, municipal utilities, lateral inspection from the mainline, pipe cleaning and pipe rehabilitation, crossbore safety, industrial and other specialized applications.

VIPER®

Pure power with the greatest range.

- With 80 m (260 ft) hybrid hose DN 10 (3/8")
- Optionally with 70 m (230 ft) hybrid hose DN 13 (1/2")
- w x d x h: 58 x 64 x 70 cm / 23 x 25 x 28 inch (telescopic handle retracted)
- w x d x h: 58 x 64 x 110 cm / 23 x 25 x 43 inch (telescopic handle extended)
- Weight 63 Kg (138 lbs) incl. 80 m (260 ft) hybrid hose DN 10 (3/8")

Easy to steer into branches, switchable forward jetting nozzle for blockage removal and HD live view enables efficient work even in hard-to-reach areas with all VIPER models.



THE VIPER®-VARIATIONS

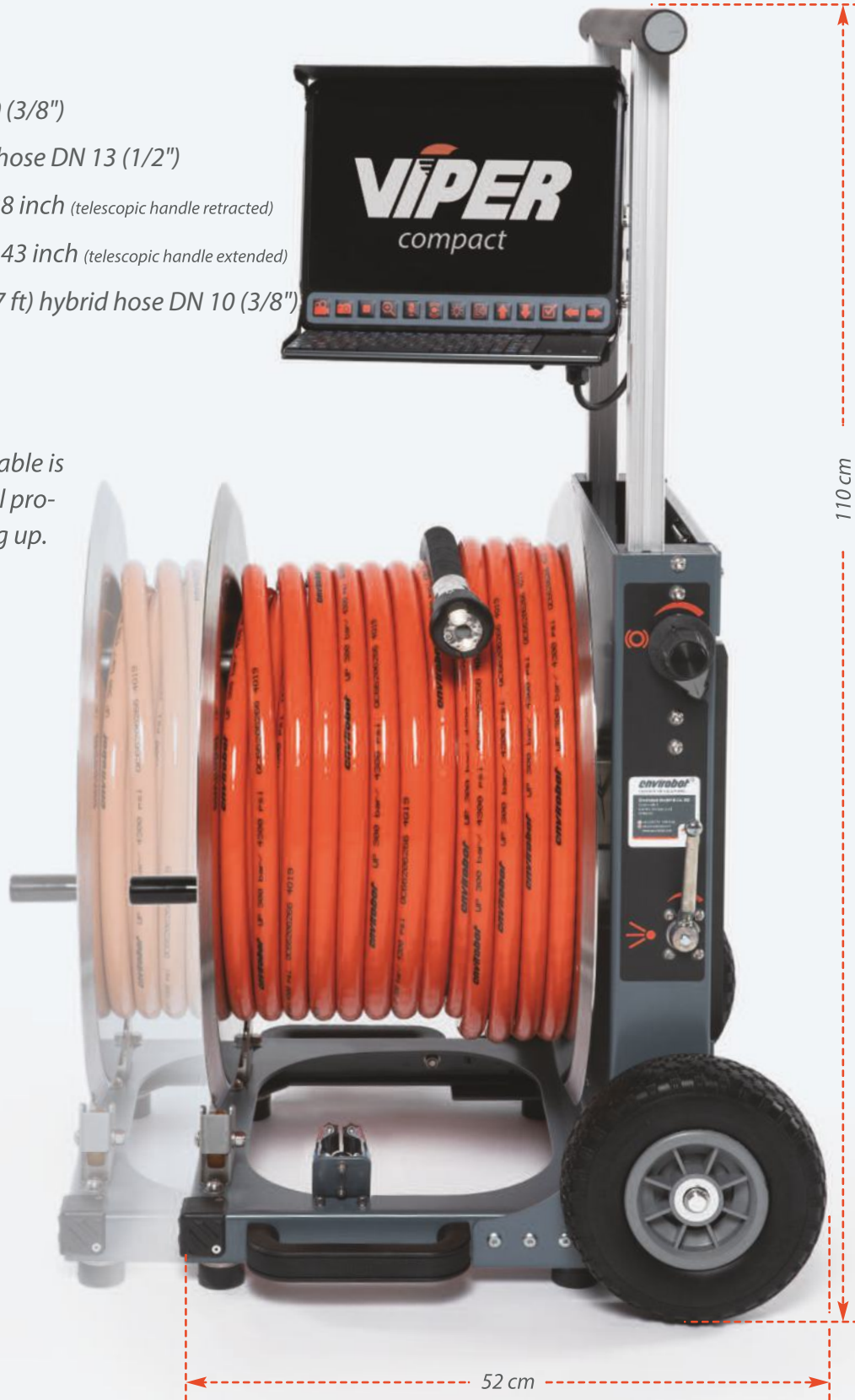
For even more flexibility, the VIPER® system is available in three other versions. Individual adaptations are possible on request.

VIPER®»compact«

Space-saving and with all comfort.

- With 60 m (197 ft) hybrid hose DN 10 (3/8")
- Optionally with 50 m (164 ft) hybrid hose DN 13 (1/2")
- w x d x h: 58 x 52 x 70 cm / 23 x 20 x 28 inch (telescopic handle retracted)
- w x d x h: 58 x 52 x 110 cm / 23 x 20 x 43 inch (telescopic handle extended)
- Weight 53 Kg (117 lbs) incl. 60 m (197 ft) hybrid hose DN 10 (3/8")

For ergonomic handling, the camera cable is integrated in the HP hose and thus well protected against damage or getting hung up.



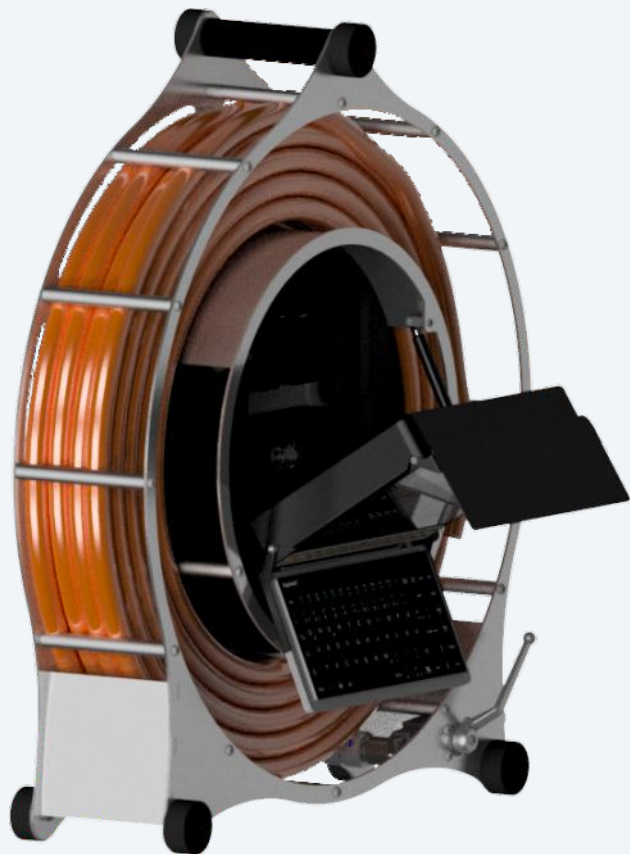
KEY FEATURES *(all VIPER® Models)*

- Pipe Sizes 2" - 16" (DN 50 - 400)
- Passes through and steers into multiple 45 deg bends in lines DN 80 (3") and larger
- Passes through and steers into multiple 90 deg bends in lines DN 100 (4") and larger
- HP hose length up to 200m (600ft) - working pressure up to 300 BAR (4350 psi)
- Hose diameter DN 10 (3/8") or DN 13 (1/2")
- Required water supply 140 BAR (2175 psi) 45 l/min (12 gpm)
- fresh water and recycled water operation

VIPER® »light«

Small and portable with 30 m (100ft) HP hose in the hose basket. Control unit can be folded in and out.

- With 30 m (100 ft) hybridhose DN 10 (3/8") or
- 25 m (82 ft) hybridhose DN 13 (1/2")
- W x H x D: 65 x 74 x 19 cm (26 x 29 x 6 inch)
- Weight 19 kg (41 lbs) including 30 m (100 ft) hybrid-hose DN 10 (3/8")



VIPER® »truck«

Permanently mounted on the HP jetter truck, available with up to 200 m (600 ft) HP hose.

The control unit can be connected to the swivel bracket e.g. on the vehicle roof or at the inside of the tailgate.





CAMERA

- Full HD live camera 1080 x 1920 with digital zoom
- 160° wide-angle lens with 4mm (0.16") sapphire glass
- dimmable power-LED's for pipes larger 400mm (16")
- 3D sensor for inclination and direction indication
- locator Sonde 512 Hz / 640 Hz
- integrated forward jetting nozzle with exchangeable nozzle
- depth rating 100m (300 ft) with internal pressure monitoring
- stainless steel body with impact protection
- detachable from the Flex Segment thanks to the modular design
- diameter 40mm (1.6") - length 40mm (1.6")
- spacer for pipes larger 3" (DN 80)

FLEX SEGMENT

- easy to steer into branches by simply turning the hose
- steering nozzle with exchangeable ceramic nozzle inserts
- integrated valve to switch the forward jetting nozzle
- rugged, highly flexible protective hose
- 6 pcs. cleaning and forward thrust nozzles, 30° angle
- exchangeable ceramic nozzle inserts, suitable for recycling water
- wear-resistant stainless steel components
- connection with quick connects

HYBRIDHOSE

- thermoplastic HP jetter hose DN 10 (3/8") or DN 13 (1/2")
- integrated camera cable
- rated 300 BAR (4300 PSI), length up to 200 m (600 ft)
- little pressure loss, abrasion resistant, floatable and low friction
- same quick connects on each side
- reversible for even wear
- can be combined e.g. 40 m DN 13 (3/8") extended with 20 m DN 10 (3/8")

HOSE TROLLEY (Viper® + Viper® compact)

- rugged, ergonomic aluminum frame, powder coated
- Extendable telescopic handle with swivel mount for the control unit
- Stepless reel brake, ball valve, tool compartment
- anti flat wheels + load assist slide rail
- ½" size fitting for connecting to jetters

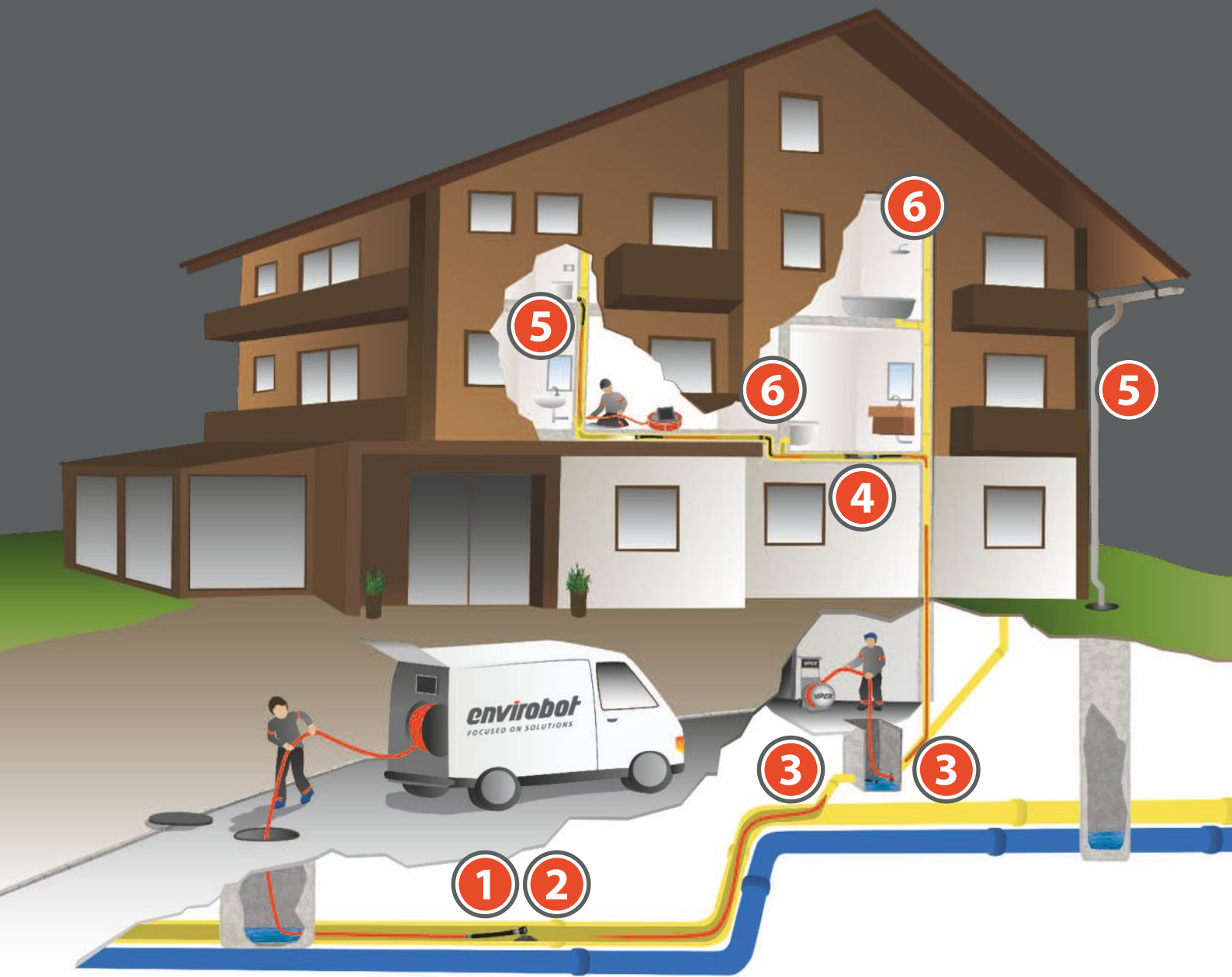
CONTROL UNIT

- Rugged, waterproof aluminum housing
- Swivel mount bracket with quick-change system
- Exchangeable Li-Ion battery with 3 hours battery life
- 12 V/24 V DC (vehicle) 110 V – 240 V AC (shoreline)
- High-resolution 10" display, sunlight readable, scratch-resistant protective screen
- Video- and photo capturing in HD on thumbdrive, 512 GB max. capacity
- Text overlay with memory for configurable pages, words and status lines
- Data overlay for cleaning pressure, camera internal pressure, distance counter, rotation angle, inclination, orientation, battery status, time, date
- Rugged, waterproof keyboard for convenient typing
- large buttons for video and photo recording, zoom, microphone, locator sonde, LED control, etc.
- Headset connection

OPTIONAL

- rotating nozzle
- spare battery
- external battery charger 12 V - 24 V / 110 V - 240 V
- analog Video output (PAL/NTSC)
- umbrella (glass fiber reinforced)

NEW
NEW



1 Precise localization through powerful location transmitter.

2 Steer around obstacles and protruding pipes.

3 Steer through junctions.

4 Clogging removal through switchable forward jetting nozzle.

5 Climb vertical stacks.

6 Cleaning and inspection from before unreachable areas.

envirobot
FOCUSED ON SOLUTIONS

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