



INTRODUCING THE PLANIX R1:

The Next-Gen PLANIX Camera System

Designed for precision, speed and efficiency

The R1 is built for ease of use, efficiency, and durability. Compact and durable, it's 35% lighter than its predecessor at just 725 grams, with up to six hours of battery life per charge.

Equipped with a 60-megapixel RICOH THETA X 360-degree camera and advanced 2D Lidar, the R1 delivers sharper, more detailed visuals with improved color and contrast compared to the PLANIX Pro. The result is an immersive, photo-realistic experience that makes property exploration easier across multiple industries.



PLANIX



PLANIX R1

Comparing the Pro and PLANIX R1



Performance

Measurement Range	Up to 40m (approx. 130')	Up to 40m (approx. 130')
Measurement Uncertainty	+/- 1cm (approx. 0.4") up to max range	+/- 25mm up to max range (raw point cloud), typically +/- 10mm from camera to wall (minimum 60cm wall length)
Laser Scanner Field of View	360 degrees	360 degrees
360° Camera	Ricoh THETA Z1 51GB	Ricoh THETA X
Resolution	6,720 × 3,360 (23MP)	11,008 × 5,504 (60MP)

Mechanical

System Unit Weight	980g (2.16 lbs)	725g (1.76lb) without cover, 986g (2.2lb) with cover
System Unit Dimensions (without cover)	W: 11cm (4.3") x D: 11cm (4.3") x H: 34cm (13.4")	W: 9.90cm (3.90") x D: 7.75 cm (3.05") x H: 28.89cm (11.375")
System Unit Dimensions (with cover)	N/A	W: 9.90cm (3.90") x D: 7.75 cm (3.05") x H: 29.53cm (11.625")
Shipping weight (with carrying case, without packaging)	3.6 kg (8 lbs)	2.8 kg (5.8 lbs)
Carrying Case Dimensions	W: 39cm (15.4") x D: 29cm (11.2") x H: 17cm (6.7")	L: 57cm (22.4") x W: 14cm (5.5") x H: 14cm (5.5")
Tripod Mounting Thread	1/4" 20	1/4" 20

Connectivity & System Control

Wi-Fi	Wi-Fi 802.11 2.4GHz/5GHz Access Point	Wi-Fi 802.11 2.4GHz/5GHz Access Point
Survey Web App	iGUIDE PLANIX app or Planitar web app in a browser over Wi-Fi from any device	iGUIDE PLANIX app. iOS or Android

Environmental

Operating Temperature Range	0-40 degrees C (32-104 degrees F)	5-40 degrees C (41-104 degrees F)
Storage Temperature Range	-20-50 degrees C (-4-122 degrees F)	-20-50 degrees C (-4-122 degrees F)
Relative Humidity	0-90%	0-90%

Electrical

System Battery	7.2V 6.9Ah/47.7Wh Li-Ion battery, user-replaceable	12V Li-Ion battery, user-replaceable
System Power Supply	Input: 100-240VAC, 50-60Hz, 1.0A; Output: 12VDC, 3.3A	Input: USB-C 100-240VAC, 50-60Hz, 1.0A; Output: 12VDC, 1.8A
System Battery Performance	Up to 7 hours of typical operation	Up to 6 hours of typical operation