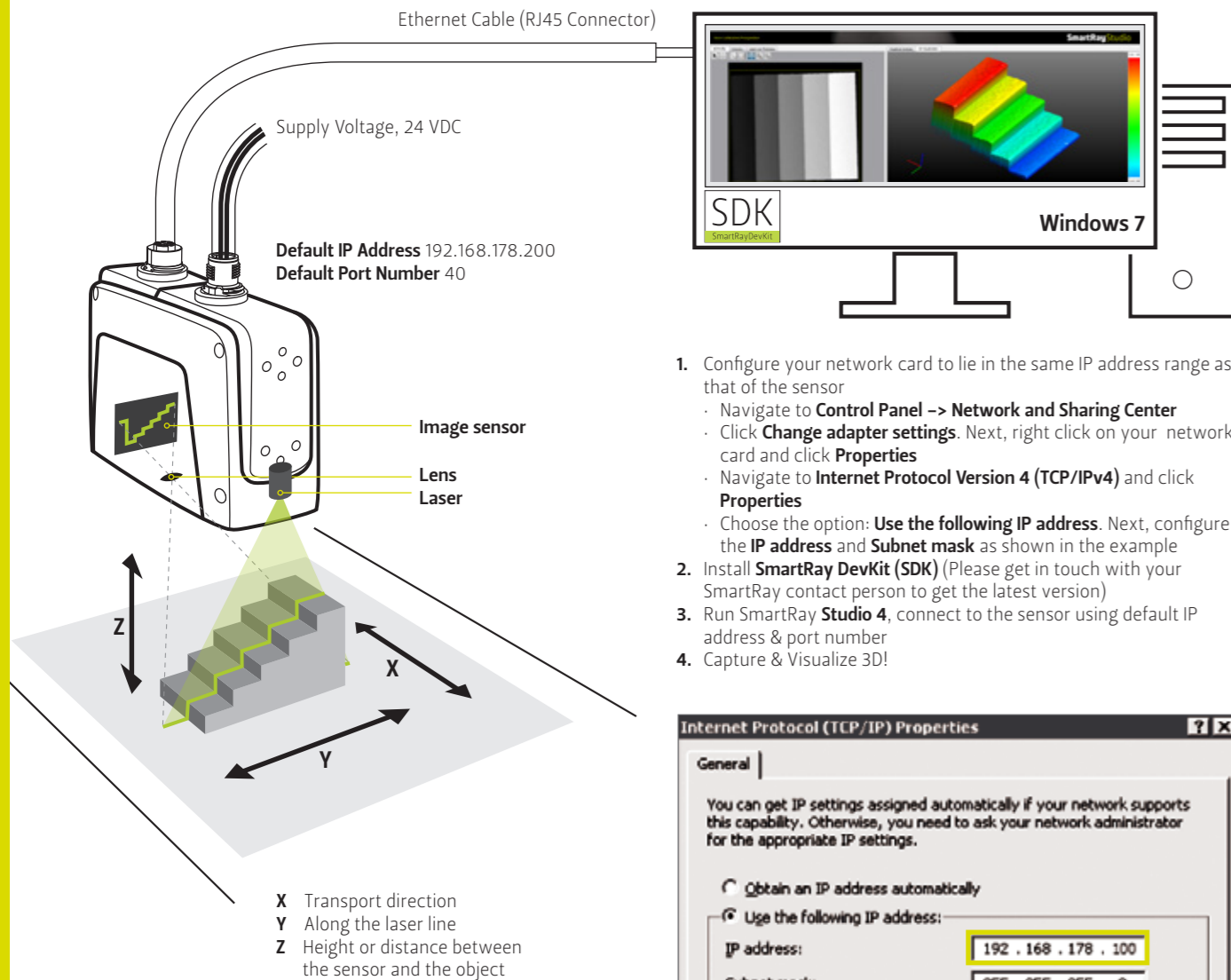
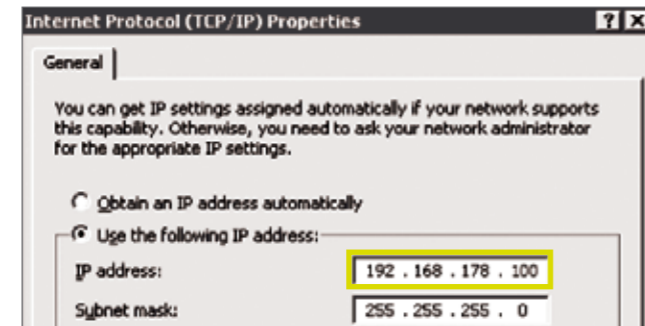


ECCO FAMILY 3D SENSORS GET STARTED



- Configure your network card to lie in the same IP address range as that of the sensor
 - Navigate to **Control Panel** -> **Network and Sharing Center**
 - Click **Change adapter settings**. Next, right click on your network card and click **Properties**
 - Navigate to **Internet Protocol Version 4 (TCP/IPv4)** and click **Properties**
 - Choose the option: **Use the following IP address**. Next, configure the **IP address** and **Subnet mask** as shown in the example
- Install **SmartRay DevKit (SDK)** (Please get in touch with your SmartRay contact person to get the latest version)
- Run **SmartRay Studio 4**, connect to the sensor using default IP address & port number
- Capture & Visualize 3D!

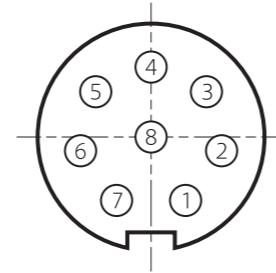


Static IP Address Example 192.168.178.100

ECCO 35 | ECCO 55 CABLE DESCRIPTION

POWER-I/O CABLE PINOUT DESCRIPTION

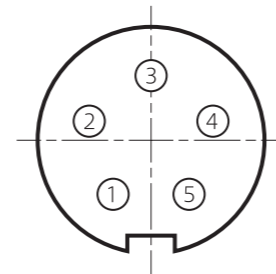
Part number: 6.310.0XX | The ECCO 35/55 Series has an M9 (8 pin) connector



PIN NO	WIRE COLOR	FUNCTION	DESCRIPTION
Pin 1	White	Ground	Operating Voltage-, 0 V
Pin 2	Brown	VCC	Operating Voltage+, 24 VDC ±15% ripple
Pin 3	Green	Output 1	24 V (max. 20 mA)
Pin 4	Yellow	Output 2	24 V (max. 20 mA)
Pin 5	Grey	Input 1	5 – 24 V
Pin 6	Pink	Input 2	5 – 24 V
Pin 7	Blue	Input 3	5 – 24 V
Pin 8	Red	Input 4	5 – 24 V

ENCODER CABLE PINOUT DESCRIPTION

Part number: 6.307.0XX | The ECCO 35/55 Series has a M9 (5 pin) connector



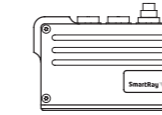
PIN NO	WIRE COLOR	FUNCTION	DESCRIPTION
Pin 1	White-Brown	Encoder A+	RS-422 compliant
Pin 2	Brown	Encoder A-	RS-422 compliant
Pin 3	White-Blue	Encoder B+	RS-422 compliant
Pin 4	Blue	Encoder B-	RS-422 compliant
Pin 5	Black	GND	Ground

WARNING

! FAILING TO ADHERE TO THE WARNINGS
COULD RESULT IN DAMAGING THE SENSOR!

- Before sensor power-up, ensure that the corresponding pin of an **unused sensor input** is terminated (mechanically fixed) and

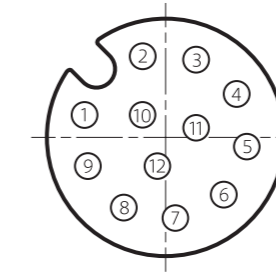
connected to Ground. The input signal voltage must not exceed the operating voltage (VCC).
 Before sensor power-up, ensure that the corresponding pin of an **unused sensor output** is mechanically fixed in an insulated screw joint, and **not** connected to Ground.



ECCO 75 | ECCO 95 CABLE DESCRIPTION

POWER-I/O-ENCODER CABLE PINOUT DESCRIPTION

Part number: 6.320.0XX | The ECCO 75/95 Series has an M12 (12 pin) connector



PIN NO	WIRE COLOR	FUNCTION	DESCRIPTION
Pin 1	Brown-Blue	Ground	Operating Voltage-, 0 V
Pin 2	Brown-Red	VCC	Operating Voltage+, 24 VDC ±15% ripple
Pin 3	Grey	Input 1	12 – 24 V
Pin 4	Red	Output 2	24 V (max. 20 mA)
Pin 5	Orange	Output 1	24 V (max. 20 mA)
Pin 6	Brown	Encoder B-	RS-422 compliant
Pin 7	Green	Encoder A+	RS-422 compliant
Pin 8	Blue	Input 3	ECCO 75: 12 – 24 V ECCO 95: Laser Safety Input-, GND
Pin 9	White-Yellow	Input 4	ECCO 75: 12 – 24 V ECCO 95: Laser Safety Input+, 24 VDC
Pin 10	White-Black	Input 2	12 – 24 V
Pin 11	Black	Encoder B+	RS-422 compliant
Pin 12	Yellow	Encoder A-	RS-422 compliant
-	Yellow-Green / Black	EARTH	Grounding Shield

WARNING

! FAILING TO ADHERE TO THE WARNINGS
COULD RESULT IN DAMAGING THE SENSOR!

- Before sensor power-up, ensure that the corresponding pin of an **unused sensor input** is terminated (mechanically fixed) and

connected to Ground. The input signal voltage must not exceed the operating voltage (VCC).
 Before sensor power-up, ensure that the corresponding pin of an **unused sensor output** is mechanically fixed in an insulated screw joint, and **not** connected to Ground.

