



overview OVU20005 Artemis Servotorq Integrated Servo Motor User Guide

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Thank you for purchasing Overview's Artemis Integrated Servo Motor.

To quickly get up and running with your Artemis motor, please refer to the Technical Manual, I²C Protocol Guide and Application Notes located at:

<http://www.overview.co.uk/technical-support/>

Please observe the following precautions when handling and operating the Artemis motor:



- The Artemis motor uses semiconductors which can be damaged by electrostatic discharge (ESD). The motor must be handled and stored in an ESD safe environment.
- The Artemis motor's nominal supply is 48V DC, using up to 1 A DC. Do not hot-plug the power supply.

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Reference Information

The Artemis I²C control interface uses 12V signalling levels. Please see the Technical Manual for further details and a reference interface circuit.

When initially powered up, the motor will perform an initialisation routine as detailed in the Technical Manual. During initialisation, the unit will slightly rotate and temporarily draw a current less than or equal to the max rated current depending on the inertial load.

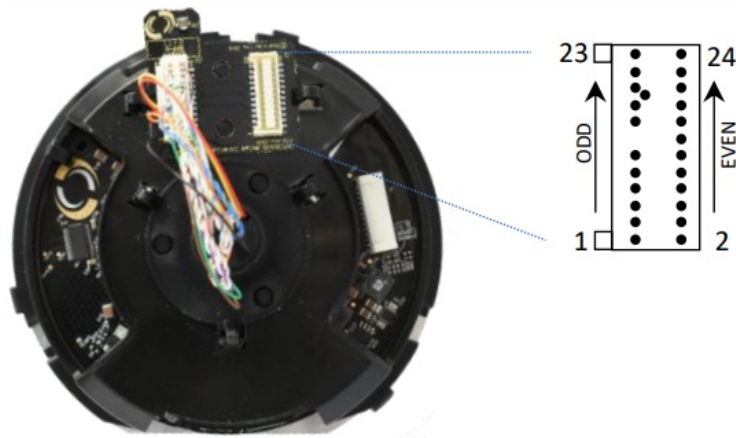
Artemis motor pinout reference (please see the Technical Manual for further details):

- Connector type: JST ZPD 24-way. Mating housing part # ZPDR 24V-S, crimp part # SZPD-002T-P0.3
- Mating housing part: <https://www.digikey.co.uk/products/en?keywords=%23%20ZPDR-24V-S>
- Pre-crimped leads: <https://www.digikey.co.uk/product-detail/en/jst-sales-america-inc/SZPD002T-P0-3/455-2539-1-ND/2472595>

Connectors

Pin	Signal	Pin	Signal
1	48Vin	2	GND
3	48Vin	4	GND
5	48Vin	6	GND
7	PASS THROUGH PAIR 1 +	8	PASS THROUGH PAIR 4 +
9	PASS THROUGH PAIR 1 -	10	PASS THROUGH PAIR 4 -
11	PASS THROUGH PAIR 2 +	12	PASS THROUGH PAIR 5 +
13	PASS THROUGH PAIR 2 -	14	PASS THROUGH PAIR 5 -

15	PASS THROUGH PAIR 3 +	16	I 2C SDA
17	PASS THROUGH PAIR 3 -	18	I 2C SCL
19	PASS THROUGH AUX 1	20	I 2C ADDRESS SELECT (Not available via slip-rings)
21	PASS THROUGH AUX 2	22	NOT CONNECTED
23	NOT CONNECTED	24	BODY (SPINDLE CONNECTION)



All ZPD connectors have the same pinout (on both PCBAs).

Note: I2C Address Select to be connected to GND for address 0x29, open for 0x28 (7-bit address). This is only available on the connectors on the large circular motor PCBA; this signal is not passed through the slip-rings supplied. (PAN/TILT address can be firmware selected in such cases.)

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Documents / Resources



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References

- [Overview Ltd - Sensor Positioning Technology](#)
- [Technical Support - Overview Ltd](#)

Manuals+.