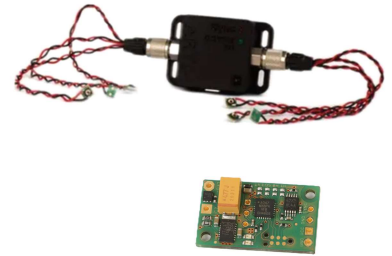


Active Marker Controller 6

Synchronized IR LED control for custom active targets

The AMC6 is a compact controller for synchronized operation of active IR markers in ART tracking systems. It controls up to six IR LEDs and supports optical IR synchronization as well as wired synchronization.

The housed version is powered via Mini-USB at 5 V and is designed for straightforward deployment in custom active-marker applications. An integration version without housing is also available for direct integration into customer-specific devices and targets.



Technical Specifications

Parameter	Specification
Application	controller for synchronized active IR markers
Supported LEDs	up to 6 high-power IR LEDs (OSRAM SFH 4716AS)
LED connection	parallel
Synchronization	optical IR synchronization via modulated flash from ART tracking cameras; external video/TTL sync (integration version only)
Synchronization frequency	10 - 500 Hz
Sync-group operation	1 or 3 sync groups
Flash duration	50, 100, 150 or 200 μ s
Status indicators	sync-status LED and power/error status LED
Typical LED output voltage	2.9 V
Typical LED current	approx. 500 mA per LED during flash phase
Software compatibility	all DTRACK versions, including DTRACK4
Hardware compatibility	all ART tracking camera systems
Operating temperature	0 - 35°C
Relative humidity	5 - 85% (non-condensing)
Weight	approx. 40 g for the housed version, excluding LEDs

Product variants

Feature	Housed version	Integration version
Housing	included	none
Power input	Mini-USB-B, 5V	3 - 6V DC; battery operation supported
Installation	for external installation	integration into customer-specific devices
Configuration	DIP switches	solder bridges on the board
Output connections	2 x 2-pin Binder 711 connectors	direct solder connections
Nominal dimensions, W x H x D	58 x 40 x 20 mm (housing)	25 x 15 x 8 mm (board)
Included in delivery	2 x 3 parallel-connected LED boards; one set per output connector; 5 m USB2.0 cable, USB-A to Mini-USB-B	pre-wired LED boards optional

Technical Drawing

all dimensions shown are nominal in [mm] unless otherwise specified

