01 SYSTEM PODS
FULL BODY TRACKING

WHAT TRACKING FOOTPRINT (SQ/FT)

<250*

SOLO EXPERIENCE 250
1 PLAYER

<500*

DUO/TEAM EXPERIENCE 500
2-6 PLAYERS

<1000*

EXPERIENCE 1000
10 PLAYERS

<2000*

EXPERIENCE 2000
16 PLAYERS

<4000*

EXPERIENCE 4000
+16 PLAYERS

Solving Method
Characters from Clusters is designed for development purposes not in game experiences.

Please call if the solution you are aiming for is not listed below
+1.303.799.8686 USA
+44.1865.261800 UK

* This assumes your volume is an open space and of a uniform ratio, based on ratios of 4:3, 2:2, 16:9 or similar - for anything else please call.

Decisions:
- Active Cluster Tracking
- WiFi
- Compact
- Device Sync
- Tracking LED
- Plug & Play
EXPERIENCE

02 PLAYER PACKS
FULL BODY TRACKING

1 EXPERIENCE PLAYER PACK INCLUDES

1 MOCAP HAT
1 CHEST STRAP
2 PULSAR RIGID MOUNTING PLATES
2 PULSAR FLEXIBLE MOUNTING PLATES
1 PAIR OF GLOVES
1 PAIR OF FEET STRAPS
8 PULSARS
1 CHARGER

The rigid & flexible mounting plates, the gloves, the feet straps & chest straps will be colour-coded in 6 colours.

1 / SOLO
2 / DUO
3
4
5
6
7-16
MULTIPLE COLOURS

ADDITIONAL ACCESSORIES AVAILABLE

NOVA ACTIVE STRAND PACK (1 NOVA ACTIVE STRAND + 10 ACTIVE MARKERS)
RIGID MOUNTING PLATE (INDIVIDUAL PACKS)
PAIR OF GLOVES (2 PAIRS)
PULSAR PACK (PACKS OF 8)
FLEXIBLE MOUNTING PLATE (SINGULAR)
ELASTICATED FOOT STRAPS (SOLD IN PAIRS)

See accessories page for details.
Please call if the solution you are aiming for is not listed below
+1.303.799.8686 USA
+44.1865.261800 UK

* This assumes your volume is a large open space and of a uniform ratio, based on ratios of 4:3, 2:2, 16:9 or similar - for anything else please call.

ARCADE

SYSTEM PODS
TRACKING HEADS & PROPS

WHAT TRACKING FOOTPRINT (SQ/FT)

MUCH LESS

<1000*

ARCADE 1000

<1500*

ARCADE 1500

<2000*

ARCADE 2000

<2500*

ARCADE 2500

<3000*

ARCADE 3000

<4000*

ARCADE 4000

<4000*

1-16 PLAYERS

Active Cluster Tracking

WiFi

Device Sync

Tracking LED

Plug & Play

DECISION TREE ARCADE
The rigid & flexible mounting plates, the gloves, the feet straps & chest straps will be colour-coded in 6 colours.

**1 ARCADE PLAYER PACK INCLUDES**

1 MOCAP HAT
4 PULSARS
4 PULSAR RIGID MOUNTING PLATES
1 CHARGER

**ADDITIONAL ACCESSORIES AVAILABLE**

1 / SOLO
2 / DUO
3
4
5
6
7-16 MULTIPLE COLOURS

- NOVA ACTIVE STRAND PACK (1 NOVA ACTIVE STRAND + 10 ACTIVE MARKERS)
- RIGID MOUNTING PLATE (INDIVIDUAL PACKS)
- PAIR OF GLOVES (2 PAIRS)
- PULSAR PACK (PACKS OF 8)
- FLEXIBLE MOUNTING PLATE (SINGULAR)
- ELASTICATED FOOT STRAPS (SOLD IN PAIRS)
With the Pulsar gloves, Pulsar clusters can be mounted to hands using rigid mounting plates. The gloves are washable and available with various colored plates for participant identification. Medium-sized gloves are supplied to fit most hand sizes.

### Pulsar Charging Dock
The Pulsar charging dock provides a convenient way to charge up to eight Pulsars. It connects via USB to a multi-port USB charger. Connect to PC and slot in the Pulsars to check and update firmware with the Pulsar Reprogramming Tool.

### Pulsar Mounting Plates
Easily attach Pulsars to participants with the Pulsar mounting plates, choose from Rigid – for gloves, hat, and backpack and Flexible – for feet and body mounting. Color options:

### Pulsar Mocap Hat
The Pulsar mocap hat is used to mount a Pulsar cluster on a participant’s head when a HMD is not in use. A medium-sized hat is supplied as standard.

### Pulsar Straps
The elasticsed straps allow the Pulsar mounting plates to be secured to participants. Small straps: To mount Pulsars on feet. Large strap: To mount Pulsars on the back of participants when a backpack PC is not in use.

### HMD Mount for Oculus Rift
HMD mounts enable one or two Pulsar clusters to be easily attached and detached to an Oculus Rift.

### Nova
The active strand LED string makes it quick and easy to add props. The Nova comes with ten LEDs as standard but is able to support up to 25.
ARCADE

PRODUCTS HARDWARE AND SPECS

HARDWARE

VIPER
Viper is the most powerful motion tracking camera for the VR industry. Designed to work with active marker technology, Viper is engineered with the flexibility to track any space, enabling endless creativity for your VR experience.

VIPER-X
Marking a new era in motion tracking, VIPER-X is the highest spec active marker camera on the market. Purpose-built for VR developers, VIPER-X makes fully immersive and interactive entertainment experiences easier than ever to create.

PULSAR
Pulsar is Vicon’s active marker tracking cluster. With adaptive, automated and customizable active strobing LED patterns, you can track any type of movement across numerous participants. The state-of-the-art design of Pulsar allows wireless tracking of participants with automatic identification, full synchronization and an impressive battery life.

BEACON
With effortless plug and play technology, Beacon suits any scale of project, creating a synchronized wireless network with lightning fast throughput and low latency. Add on Nova Active Strand LEDs, powered by USB, to track the movement of props.

SPEC

Technical Spec  Viper  VIPER-X
Resolution (MP)  2.2 MP  6.3MP
Max Power Rate at Full Resolution (W)  220 @ 2.2MP  300 @ 6.3MP
Min Frame Rate (Fps)  240  240
Range  8m  18m
In-Body Marker Processing  No  Yes
Frame Rate (Hz)  240  240
Minimum Standard FOV (HxV)  81.8 x 49.4 deg  50.2 x 50.2 deg
Optical range with Viper  10 m  18 m
Battery run time  9 Hours of use  18 Hours of use, half on - half off
Battery charge time  2 Hours @ 1 Amp  2 Hours @ 1 Amp
Connection type  Micro USB  Micro USB
Dimensions (mm) (HxWxD)  70 x 70 x 18mm  166.2 x 125 x 134.1
Weight  50g  1.4kg
Mounting  3/8” threaded camera mount
Updateable Firmware  No  Yes

Technical Spec  Pulsar
Optical range with Viper  10 m
Battery run time  9 Hours of use
Battery charge time  2 Hours @ 1 Amp
Connection type  Micro USB
Dimensions (mm) (HxWxD)  70 x 70 x 18mm
Weight  50g
Mounting  3/8” threaded camera mount

Technical Spec  Beacon
RF Coverage  2.4-868MHz worldwide
Operating Range (dBm)  20 – 60
Power  1 Watt
Operating frequency  2.4-868MHz
Dimensions (mm) (HxWxD)  50 x 83 x 70mm
Weight  110g
Mounting  Wall/ceiling mount (x4 propr)