



# THE VECTOR T7 LAUNCH – ANALYST BRIEFING

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Tuesday, 7 March 2023



# THE NEXT LEVEL OF INDOOR PLAYER TRACKING

Vector T7 is the new standard of athlete monitoring with optimized inertial and local positioning sensors it delivers the most accurate player data in indoor environments, with basketball specific data and analytics.

HIGH  
INTENSITY  
EFFORTS

HEART  
RATE

PLAYER  
LOAD

JUMP  
COUNT

EXPLOSIVE  
EFFORTS

CHANGE OF  
DIRECTION

mal use only

# CUSTOMER BENEFITS & POSITIVE MARKET INDICATORS

- **Delivers Precise Player Data in Indoor Environments**
- **Increases Player Compliance**  
T7 device is 73% smaller than the S7, and only weighs 17.5 grams, it is less obtrusive when worn in the Catapult vest or can be worn in a small pouch in the athlete's shorts.
- **Improves Workflow Efficiencies**  
With a lightweight and portable charging dock (fits in a backpack) and faster uploads, all fully integrated into GameTracker for Basketball video solution.
- **Improves Game-Time Decisions**  
With Live tracking and applications, including Jumps and Player Load
- **Gives a Detailed Picture of the Physical Demands Placed on Athletes**  
Comprehensive Athlete Metrics and a Basketball Movement Profile that categorizes basketball specific movements contributing to player load. Wearable data fully integrates with GameTracker for Basketball video solution, providing an immediate cross-sell opportunity
- **Trialed by Several Top-Ranking Basketball Teams, including Duke University Men's Basketball.**  
The Vector T7 and Basketball Movement Profile were beta tested by five-time men's national basketball champions Duke University and Ohio State University women's basketball, currently ranked fifth in the Big Ten conference.
- **Existing and New Customers Have Previewed the New Solution and are Ready to Purchase at Launch**

## T7 SIZE COMPARISON



**Vector T7**  
**53 x 35 x 8 mm**

**56% SMALLER THAN T6**



**T6**  
**53 x 43 x 12 mm**

**73% SMALLER THAN S7**



**Vector S7**  
**81 x 43 x 16 mm**



## WAIST MOUNT OPTION

DESIGNED TO IMPROVE ATHLETE COMPLIANCE

- The T7 device can be worn at the waist using a pouch sewn into the athlete's shorts
- T7 device can also be worn in the Catapult Vest as usual
- Consistency of placement (vest or waist) of the device per athlete is critical for analytics consistency

T7 POUCH SEWN  
INTO WAIST OF  
ATHLETE'S SHORTS

Internal use only

# SMART DOCKING STATION

DESIGNED TO MAXIMIZE WORKFLOW EFFICIENCY

- 24 Devices in a smaller self contained tray
- 'Ignition Button' to turn on/off all devices with single press
- On board battery & computing power
- WiFi Downloading
- On Board Data Storage
- In standby mode dock can last up to 8 days without requiring charging
- Docking station and carrying cases fits easily into a standard backpack



# LIVE METRICS

## IMPROVE REAL-TIME DECISION MAKING

- Get better live insights into how your players perform.
- ClearSky live tracking combined with the integration of Vector Live mobile applications allow coaches to look at player performances in real time on any device.





# BASKETBALL MOVEMENT PROFILE

COMPREHENSIVE VIEW OF PLAYER LOADING



The Basketball Movement Profile algorithm analyzes player movement in one second segments and assigns the movement to one of five categories based on the type and intensity of the movement:

**Active** - Walking-like movements

**Running** - Steady jogging/running movements

**Dynamic** - Turning and change of direction movements

**Jumping** - Jumping movements

**Settled** - Standing-like movements



# COMPREHENSIVE TESTING AND VALIDATION

The Vector T7 device and data analytics are being tested and validated at the elite level during the 2022-2023 basketball season

- Data accuracy and reliability
- Device durability
- New Basketball specific metric development



**DUKE MEN'S BASKETBALL**



**KENTUCKY WOMEN'S BASKETBALL**



**OHIO STATE WOMEN'S**



**GEORGIA WOMEN'S**



mal use only



CATAPULT

**UNLEASH POTENTIAL**

CATAPULTENERGY.COM

# DEVICE SPECIFICATIONS

## VECTOR T7 DEVICE

DIMENSIONS	53mm x 35mm x 8.2mm
VOLUME	14cm <sup>3</sup>
WEIGHT	17.5g
BATTERY	6 hours
GLOBAL POSITIONING	N/A
LOCAL POSITIONING	Catapult ClearSky 10Hz+
WIRELESS COMMUNICATION	Ultra-wideband & Bluetooth 5
WIRELESS RANGE	Up to 300m (UWB)
CAPACITY	200 athletes
HEART RATE	Polar 5.5kHz Compatible (all models)
ACCELEROMETER	3D +/- 16G. Sampled at 100Hz
GYROSCOPE	3D 2000 degrees/second @ 100Hz
MAGNETOMETER	3D ±4900 µT @100Hz

## VECTOR PORTABLE RECEIVER

WIFI	2.4 + 5 GHz
WIRELESS DATA	Ultra-wide Band
BATTERY LIFE	9 hours

## VECTOR STADIUM RECEIVER

WIFI	2.4 + 5 GHz
WIRELESS DATA	Ultra-wide Band
POWER	Power over Ethernet