Celebrating Our 30 Year Anniversary

Biomark has been a worldwide supplier in electronic identification technology to the fisheries, wildlife and natural resource conservation communities for over 30 years. We specialize in PIT (Passive Integrated Transponder) technology, providing a broad variety of identification and monitoring solutions for fish and wildlife research. Our extensive product line provides options for the most simple small scale mark/recapture projects to large, long-term monitoring solutions.

Biomark supplies tags, readers and antennas that provide consistent and reliable data. We design custom and turn-key detection systems for a wide variety of applications. Our Technical Services Department has over 30 years of experience providing solutions for rivers, hydrofacilities, hatcheries and a variety of terrestrial applications.

To learn more visit us online at: biomark.com

INRIVER SYSTEMS

- HDPE Antenna lengths: 10’ (3 m) | 15’ (4 m) | 20’ (6 m)
- Connect up to 12 antennas with the IS1001 MC
- Inriver systems require an IS1001 Reader
**FISH PASSAGE SYSTEMS**

- Custom sizes available
- Hand welded, low profile HDPE antennas
- Requires IS1001 Reader

**READERS**

**IS1001-MC**
- Master Controller (MC)
- Up to 12 IS1001 Readers
- Command, control, and data collection center for PIT tag monitoring system
- Power and communication transfers between IS1001 and MC via CAN-bus cable
- Requires IS1001 Reader

**IS1001 READER**
- High performance reader
- Low power consumption and highly adaptable to environmental changes
- Capable of operating large, low inductance antenna
- Standalone or synchronized systems
ENCLOSURES

- Upland electrical components are housed in metal or plastic enclosures, depending on the application and environment
- Enclosures can be placed on the ground or secured to a pole or wall

OPTIONAL POWER SOURCES
- Isolating Battery Switcher
- Solar Power
- Thermoelectric Generator
- Grid
COMMUNICATION HARDWARE

DIAGNOSTIC AND TAG DETECTION
Data can be retrieved via cell or satellite modem, ethernet or fiber optic cable connections.

LITZ CORD ANTENNA SYSTEM

LITZ CORD LENGTHS
30' | 40' | 60' | 80'
(9.1 m | 12.2 m | 18.3 m | 24.4 m)
STANDARD CORD ANTENNA SYSTEM

• 25’ (7.4 m) standard cord length
• Requires IS1001 Reader

PORTABLE ENCLOSURE

J-BOX

12’ (3.7 m)

25’ (7.4 m)

RIVERWATCHER FISH COUNTER

• Accurate fish count & size estimation
• Monitor fish migration patterns
• Assess efficiency of fish ladders
• Evaluate results of smolt releases
• Pair with Biomark PIT Tag antenna systems

AVAILABLE OPTIONS

• Riverwatcher Camera
• Riverwatcher Scanner
• Riverwatcher Scanner & Camera
• Riverwatcher PIT Tag
• Riverwatcher Smolt
• Riverwatcher Elver
CUSTOM SOLUTIONS

- Ability to provide monitoring solutions almost anywhere
- Ample experience allows us to design and test numerous antenna sizes
- Able to meet the needs of unique monitoring applications

CUSTOM DESIGN, CONSTRUCTION & INSTALLATION
- Hydrofacilities
- Hatcheries
- Rivers
- Terrestrial applications
- And more!

BIOLOGIC SITE MODULE SOFTWARE

Monitor PIT tag antenna systems remotely, in real time
FABRICATION

ANTENNA PRODUCTION

• Tested and configured in Biomark’s dedicated fabrication facility
• Undergo a rigorous QC/QA process
• Serial number and electronic copy of the final production document is prepared for each antenna

Biomark ensures all components meet performance standards before leaving our production facility!

OPERATIONS & MAINTENANCE

SUPPORT

• Remote support available
• Contracted services offered on an ongoing basis
• Troubleshooting available
• Issue resolution

BIOMARK’S O&M TEAM

• Highly experienced
• Directly involved in the development of project tools
• Value consistent system operations
• Ensure that our PIT tag detection systems perform optimally
**ENGINEERING AND R&D**

**ELECTRONIC ENGINEERS & TECHNICIANS AT BIOMARK**
- Offer guidance on system design & troubleshooting
- Work to provide solutions to fit unique monitoring scenarios
- Bring over 100 years of combined experience

**INSTALLATION**
- Over 30 years of experience installing systems
- Staff ensures a smooth, efficient & successful installation

**EQUIPMENT**
- Provided for close to home installations
- List provided for far away installations

**SYSTEM INSTALLATION**

Our team completes each project with a thorough testing and offers training for the user group!
CUSTOM SYSTEM COMPONENTS

• Biomark has been building PIT Tag detection systems for over 30 years
• No project is too big or too small
• Our carefully selected components collectively result in robust and reliable systems