Hilco Streambank and Rock Creek Advisors are seeking offers to acquire or license certain assets of DAQRI.

The assets include a portfolio of 175+ granted design and utility patents and pending patent applications across a broad spectrum of augmented reality (“AR”) technology fields, as well as trademarks and domain names. The seller will entertain offers to acquire or license the patent portfolio.

Offer Deadline Extended: April 30, 2020

DAQRI’s patented technology has penetrated the rapidly growing and highly innovative AR market. The portfolio of patents has achieved commercial acceptance with over 120 customers in the marketplace utilizing the headsets and software. The technology has been deployed in a wide range of industries including automotive, manufacturing, energy, pharmaceuticals, construction, consumer electronics, beauty and more, and can be customized and leveraged across virtually any other industry.
SUCCESSFUL COMMERCIALIZATION

As of mid-2019, DAQRI’s customers had purchased and were integrating over 700 units of this state-of-the-art technology in their warehouses, manufacturing facilities and in the field. Numerous customers conducted initial field testing resulting in 30-50% increases in workforce efficiency and accuracy when completing critical tasks. This uptick in performance saves critical resources and prevents costly downtime and user error that often occur when completing tasks without the DAQRI technology.

EXTENSIVE AR PATENT PORTFOLIO

DAQRI built a name in the AR space by developing and delivering professional-grade augmented reality solutions to its 120+ corporate clients across many markets and industries. DAQRI solutions are supported by a global patent portfolio covering virtually all the foundational software and hardware elements required to support industry leading head-worn computing solutions as detailed below. The patent portfolio contains priority dates as early as 2013.

DAQRI’s two primary product lines were the head-worn hardware (DAQRI Smart Glasses®) and the software platform (DAQRI Worksense®). Together, the two technologies linked digital content to the real world to accelerate productivity, communication, and key business processes.
The DAQRI patent portfolio is comprehensive, with over 175 granted and pending patents. The portfolio protects a wide range of features and uses on a worldwide basis, including core technologies for AR solutions. The company’s products, which were crafted using the patents as a foundation, have been commercialized and deployed in the marketplace.

### PATENT TECHNOLOGY OVERVIEW

- **User Input**
  - Gesture-based graphical keyboard for computing devices US5464194
  - Gesture-based GUI for computing devices US6464276
  - Peripheral device for head mounted display US699594
  - Peripheral device for head-mounted display US6995507

- **AR Audio**
  - Smart audio augmented reality system US9067737
  - Directional augmented reality warning system US9022773
  - Directional augmented reality system US9202764

- **Display Technology**
  - Reducing latency in augmented reality (AR) displays US9277187
  - Retractable display for head-mounted device US9625724
  - Dynamic lighting for head-mounted device US9884119
  - Wearable video headset and method for calibration US9867383
  - Efficient augmented reality display calibration US3338049 (allowed)

- **Processing**
  - Augmentation of content delivery US8957948
  - Offloading augmented reality processing US5294479
  - Offloading augmented reality processing US9672660
  - Augmented reality content adapted to changes in real world space geometry US9898844
  - Offloading augmented reality processing US9990795
  - Spatial data processing US9830395
  - Extracting sensor data for augmented reality content US9402205

- **See-through Display Technology**
  - Optical modules US8384999
  - Placement of a computer generated display with focal planes at finite distance using devices and a see-through head-mounted display incorporating the same US9040
  - Optical combiner apparatus US5209111
  - Interface-based modeling and design of three dimensional spaces using two dim representations US404072
  - Active parallax correction US9733409
  - Optical waveguide device, methods and systems incorporating the same US9893
  - Optical hyper-focal reflective systems and methods, and augmented reality and/or reality displays incorporating the same US214142
  - Adaptive Viewports for a Hyperfocal Viewpoint (HVF) display US7277174
  - Non-uniform sub-pupil reflectors and methods in Optical Waveguides for AR, HMC HUD applications US790458

### PATENT TECHNOLOGY CATEGORIES

- **AR Content Generation**
  - Contextual local image recognition dataset US9170201
  - Real world analytic visualization US9607584
  - Campaign optimization for experience content dataset US9240005
  - Contextual local image recognition dataset US9613462
  - Campaign optimization for experience content dataset US9760777
  - Contextual local image recognition dataset US6249656
  - Visual gestures US9535498
  - Data manipulation based on real world object manipulation US9639384
  - Visualization of physical characteristics in augmented reality US9258281
  - Spatial data collection US9799142
  - Spatial data visualization US9799143
  - Augmented reality content creation US20160247324
  - Sample based color extraction for augmented reality US9727977
  - Real time texture mapping for augmented reality system US9659381

- **DAQRI Smart Glasses**
  - Headwear D800727
  - Portable computing device 20670.603 (allowed)

- **DAQRI Smart Helmet**
  - Head mounted display helmet D777.379
  - Headwear D777.381
  - Headwear D750.329
  - Headwear D801687

- **CV Developer Kit**
  - Electronic device D820318

- **AR Controller**
  - Electronic device D820319

- **Audio & AR**
  - Portable computing device 29/579,603
  - Headwear D800727
  - Headwear D777,381
  - Headwear D750,329
  - Headwear D801687

- **Optics & HIL**
  - Data collection US9760777
  - Spatial data processing US9830395
  - Extracting sensor data for augmented reality content US9402205
**AR FUNCTIONALITIES**
- Threat identification system US981970
- Augmented reality (AR) visualization of advanced driver-assistance system 15/607,941
- Adjusting depth of augmented reality content on a heads-up display 15/595,566 (allowed)
- Augmented reality transportation notification system 15/625,229 (allowed)
- Threat identification system 9684970
- System and method for tool mapping US824437
- System and method for tool mapping US10217209

**VIRTUAL USER INTERFACES**
- Visual indicator for transparent display alignment US599,825
- Virtual expansion of desktop US595,607 (allowed)

**VISUAL INERTIAL ODOMETRY & TRACKING**
- Tracking of surface in a 3-dimensional scene using natural visual features of the surface US7343278
- Tracking a surface in a 3-dimensional scene using natural visual features of the surface US7987079
- Distributed aperture visual inertial navigation US4067171
- Augmented point cloud for a visualization system and method 10026219
- Deep image localization 9934587
- Deep image localization 15/880,364

**MAPPING & RECONSTRUCTION**
- Three-dimensional mapping system US9865058
- Three-dimensional mapping system 15/711,317
- 3D video reconstruction system US958707
- Environmental mapping system 15/861,401

**CONTENT CREATION**
- System and method for generating composite depth images based on signals from an inertial sensor 16/254,574
- Determining a pose of an object from RGB-D images 15/974,998
- Remote object detection and local tracking using visual odometry 15/974,998
- Voting space-based loop closure detection 16/14,759

**SENSOR TECHNOLOGY INCLUDING THERMAL IMAGING**
- Light-based radar system for augmented reality US9989608
- Multi-spectrum segmentation for computer vision 15/986664
- Multi-spectrum segmentation for computer vision 15/880,886 (allowed)

**HARDWARE**

**BRAIN-COMPUTER INTERFACE**
- Manipulation of virtual object in augmented reality via intent US9383219
- Manipulation of virtual object in augmented reality via thought US9354702
- Real-time biometric detection of oscillatory phenomena and voltage events US93585581
- User status indicator of an augmented reality system US13067787
- Biometric based false input detection for a wearable computing device 15/600,104
- Attention, comprehension, and drowsiness monitoring via head mounted device supporting augmented and mixed reality experiences 15/807,026
- Manipulation of virtual object in augmented reality via thought US999655
- User input validation and verification for augmented and mixed reality experiences 15/807,032
- Manipulation of virtual object in augmented reality via intent US9966983

**REMOTE EXPERT & AR COLLABORATION MODULES**
- Remote expert system US9663985
- Dynamic sensor array for augmented reality system US9934754
- Remote expert system 10298669
- Remote sensor access and queueing US9578399
- Recording remote expert session US10857868
- Remote sensor access and queueing US9837617
- Contextual augmented reality devices collaboration US9885093
- Contextual augmented reality devices collaboration 15/794,729

**EYE TRACKING**
- Visual gestures for a head mounted device US9652047
175+ Granted and Pending Patent Applications

- 97 granted utility patents
- 51 pending utility patents
- 30 granted design patents
- 1 pending design patent

Territories of Design and Utility Patents & Patent Applications

- United States: 104
- EUIPO: 13
- U.K.: 3
- Germany: 3
- France: 2
- EPO: 2
- China: 4
- Korea: 13
- Japan: 7
- Australia: 9
- New Zealand: 6

175+ trademark registrations across more than 65 countries, regions and jurisdictions

Domains

(including daqri.com)
Ergonomically and modularly designed, the DAQRI Smart Glasses® product line offers its user an ultra low-latency digital rendering solution for complex tasks that require extensive industry or product knowledge, reducing safety risks, and increasing efficiency and accuracy. The hardware features a wide field of view and can be used in indoor and outdoor settings. Paired with the DAQRI Worksense® software platform, workforces operated intelligently, efficiently and productively by receiving environmentally-based data directly into the user’s field of vision in real-time, allowing a previously unseen view into a landscape that provides valuable guidance and critical information for completing tasks.

DAQRI Worksense® is a standardized platform solution for work processes with a complete app suite for digital workforces. The platform offered numerous advantages via its software that directly improve workforce effectiveness. DAQRI Worksense® focused on improving everyday job functions by giving the user the capability to add a digital layer to the environment that can be manipulated and shared with colleagues, all in real-time.

Offer Deadline Extended: April 30, 2020

Offers to buy or license the DAQRI patent assets are due on or before April 30, 2020. The seller will entertain offers for the entire patent portfolio, as well as subsets of the portfolio.

Please contact Hilco Streambank or Rock Creek Advisors for more information about the sale process as well as access to the online due diligence data room.

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