

Technology Request

Request for optical technology of wide FOV(field of view) for VR(virtual reality) HMD(head mounted display) such as smart glasses etc.

Summary

A Korean company which specialized in developing and manufacturing high-tech parts is looking for a technology of wide FOV, over 140 degrees, for VR(virtual reality) HMD(head mounted display). The existing wide FOV up to now is limited by 100 degrees. Wide FOV technology would be applied in human-machine interface field, smart glasses etc. The company is interested in cooperating with a partner for joint venture, manufacturing, research cooperation or technical cooperation.

Last Update 05 August 2016
Expiration Date 11 April 2017
Reference TRKR20160407001

Details

Description

A Korean company specialized in developing and manufacturing high-tech parts, has an idea to develop wide FOV (field of view), over 140 degrees, using lenses, prisms, or other optical components including DOEs(diffractive optical elements) HOEs(holographic optical elements) or etc.

VR is an artificial environment which could be applied in various fields. But in order to increase the sense of reality and immersion, FOV should be over 140 degrees. However, by using conventional optics, the FOV could reach only to 100 degrees.

To overcome these technical limits, it is necessary to approach a new optical technology such as wave optics etc.

They're looking for a partner who provides an advanced technology mentioned above and does research and development together to create a completed wide FOV.

They prefer a company or a research institute which has references in manufacturing VR HMD goods that FOV technology is applied. No preference for countries.

Technical Specification or Expertise Sought

Must have : 1. FOV : > 140 degrees

Nice to have : 1. compact size, 2. eye tracking, 3. around view camera

Favorable : 1. MLA(Micro Lens Arrays) on panel pixel, 2. curved display, 3. advanced eye piece optics

Comments Regarding Stage of Development

Those already on the market, available for demonstration and project already started are welcomed.

Keywords

Technology

01001002	Digital Systems, Digital Representation
03003	Apparatus Engineering
03007	Sound Engineering/Technology
03010	Household Goods & Appliances

Market

07001001	Movies, movie products and theatre operations
07001004	Sporting goods, hobby equipment and athletics clothes
07001006	Music, records, production and instruments
07001007	Other leisure and recreational products and services
07004008	Other consumer products

NACE

C.26.2.0	Manufacture of computers and peripheral equipment
C.26.4.0	Manufacture of consumer electronics
C.27.2.0	Manufacture of batteries and accumulators
C.27.3.3	Manufacture of wiring devices
C.27.5.1	Manufacture of electric domestic appliances

Network Contact

Issuing Partner

BERLIN PARTNER FUER WIRTSCHAFT UND TECHNOLOGIE GMBH

Contact Person

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Open for EOI : **Yes**

Dissemination

Send to Sector Group

ICT Industry and Services

Client

Type and Size of Organisation Behind the Profile

Industry >500

Year Established

1970

Turnover

>500M

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English

Client Country

South Korea

Partner Sought

Type and Role of Partner Sought

Type of partner sought: company, research institute, university

Specific area of activity of the partner: optics technology

Task to be performed: joint development, R&D outsourcing, component sourcing

Type of Partnership Considered

Manufacturing agreement

Technical cooperation agreement

Joint venture agreement

Research cooperation agreement

Attachments

output image& project description.jpg

Output Image & Project Description

